

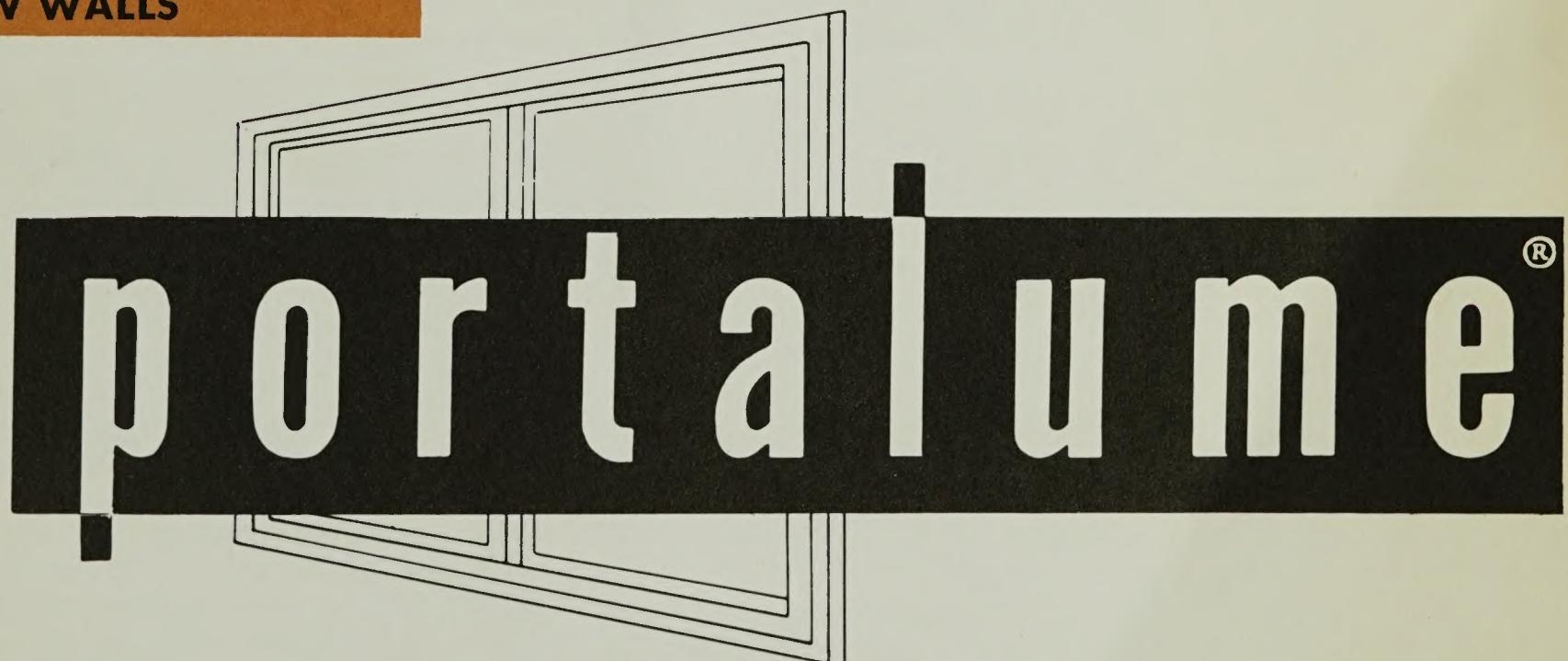
- SLIDING WINDOWS

- DOUBLE HUNG WINDOWS

- SINGLE HUNG WINDOWS

- PICTURE WINDOWS

- WINDOW WALLS

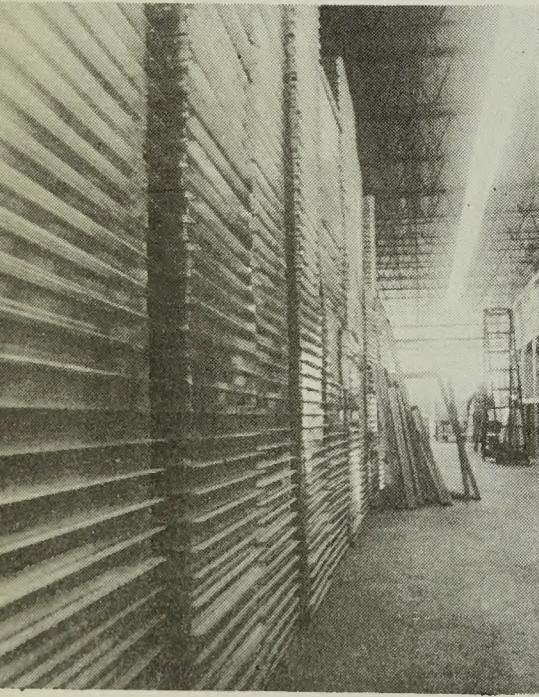
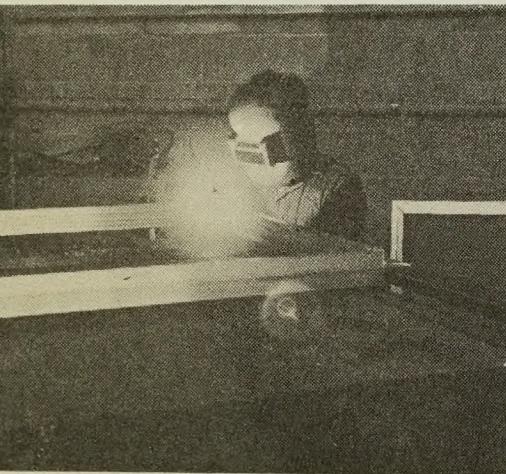
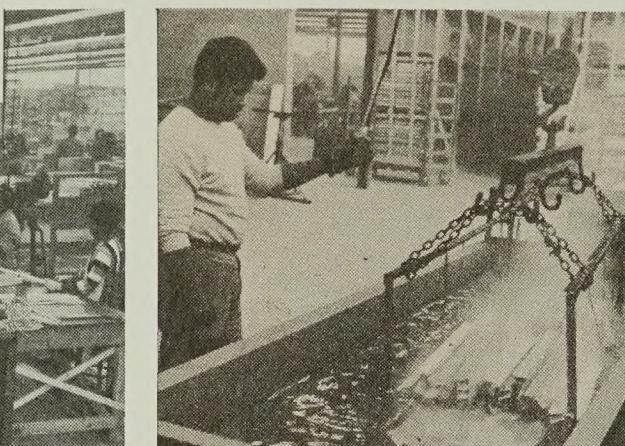


- KWIKWALLS

quality aluminum products for the building industry

PORTA ALUMINUM INC.

- SLIDING DOORS



At its birth in 1956, Porta Aluminum Inc. consisted of plant and offices occupying eight thousand square feet, nine employees, two salesmen, and a firm conviction that aluminum sliding windows could be better engineered and could become important to the building industry.

The accuracy of this conviction has been proved. Today Porta Aluminum Inc. employs three hundred people in a modern one hundred thousand square foot plant, has salesmen servicing builders in the entire East from Canada south to Virginia.

Because of their design features, and because of the quality, pricing and service policies of the company PORTALUME products have become the standards against which all similar products are judged.

TABLE OF CONTENTS

Page

SLIDING WINDOWS—Series 101

Features	4
Specifications	5
Types and Sizes	5
Storm Sash & Screens	5
Installation Details	6 & 7
In Wood Buck	8
Picture Windows	8
Muntin Variations	9
Area and Size Data	10
Window Wall	11

DOUBLE HUNG WINDOWS—Series 900

Features	12
Installation Details	13
Types and Sizes	14
Rough Openings	14
Specifications	15
Glass Schedule	15
Picture Windows	16 & 17

DOUBLE HUNG WINDOWS—Series 900 Integral

Installation Details	18
Combinations with continuous head & sill	19
Rough Openings	19

DOUBLE HUNG WINDOWS—Series 900 Kwikwall

Features	20
Specifications	20
Installation Details	20

SINGLE HUNG WINDOWS—Series 800

Features	21
Specifications	21
Installation Details	21
Types and Sizes	22
Muntin Variations	22
Glass Schedule	22
Rough Openings	23
Continuous Head & Sill	23

SLIDING DOORS—Series A

Features	24
How to Order	25
Specifications	25
Installation Details	26 & 27



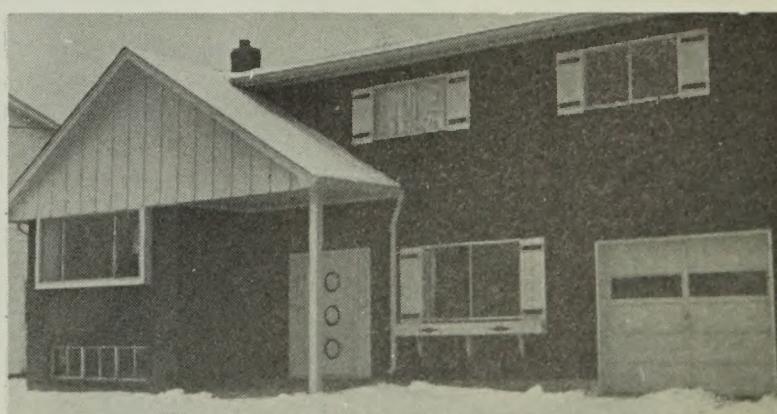
**PORTALUME® ALUMINUM PRODUCTS HAVE
WON ACCLAIM AS THE MOST ECONOMICAL
AND VERSATILE WINDOWS AND DOORS**



The diversity of the PORTALUME line...the inventory of stock sizes—one of the largest in the industry (approximately 30,000 units)—plus the infinite variations available on a custom basis, results in the correct windows and doors for every type of home construction. Modern ranch, new split level or elegant colonial...small garden apartment or large apartment development...brick, fieldstone or stucco...shingle or siding...there are PORTALUME windows and doors to compliment every architectural concept.

PORTALUME staff engineers stand ready to offer free consultation on all matters of fenestration. Porta representatives will recommend and demonstrate the PORTALUME products best suited to your design and building needs.

The modern PORTA ALUMINUM plant, in Old Bethpage, Long Island, invites your inspection.



ALUMINUM SLIDING WINDOWS .

FEATURES

WOOL PILE

WEATHERSTRIPPING

around perimeter of sash provides silent, efficient, long lasting protection against the elements. The use of wool pile eliminates metal-to-metal contact, thus avoiding the prime cause of binding.

HANDLE ON TUBULAR
MEETING RAILS

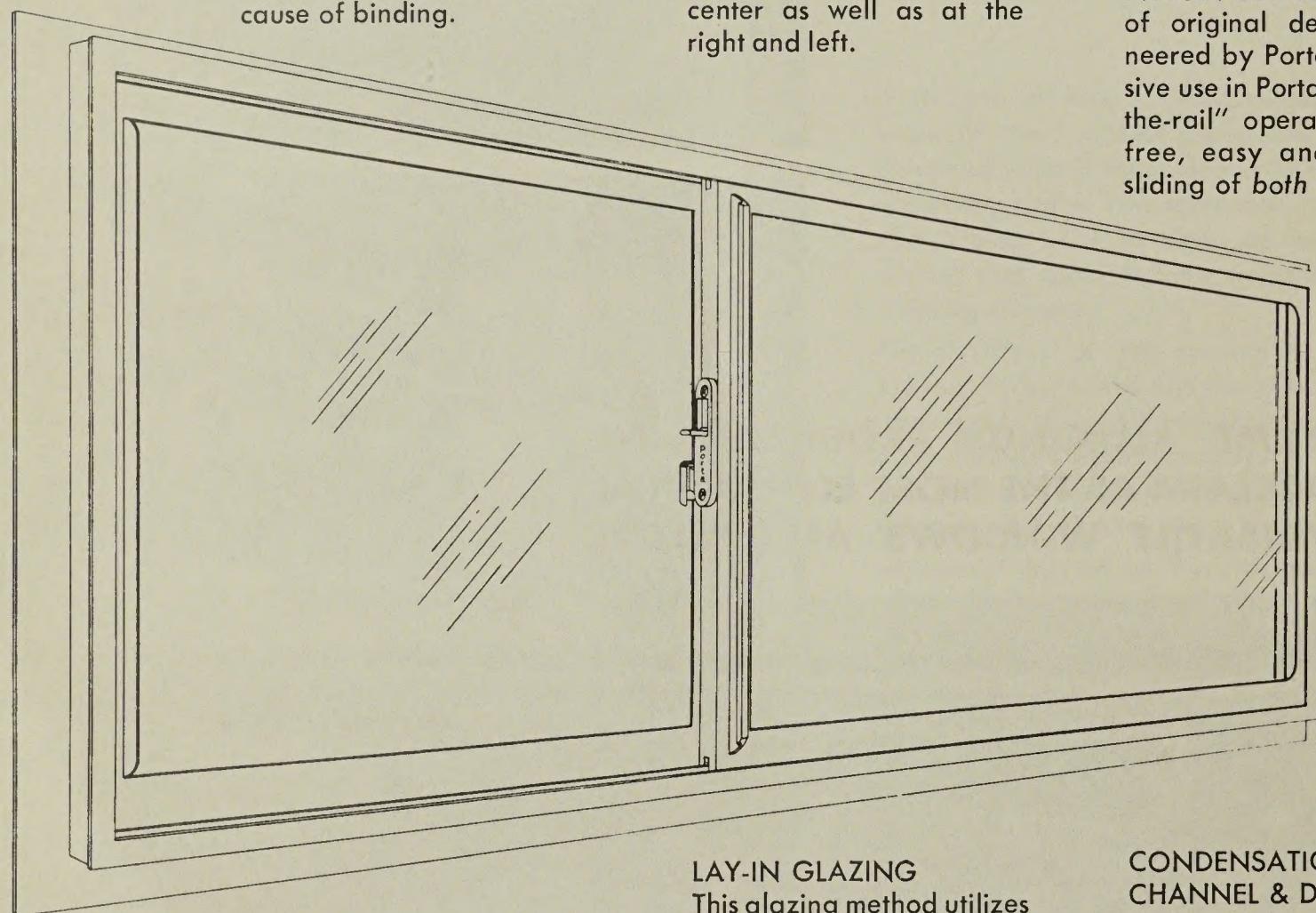
Fully tubular meeting rails with an additional interior handle add to the strength of the sash. This additional handle enables the operator to hold the sash at the center as well as at the right and left.

ADDITIONAL
HEAD ROOM

in frame permits easy removability and free operation of sash.

NYLON GLIDES

of original design, engineered by Porta for exclusive use in Portalume's "on-the-rail" operation, insure free, easy and noiseless sliding of both sash.

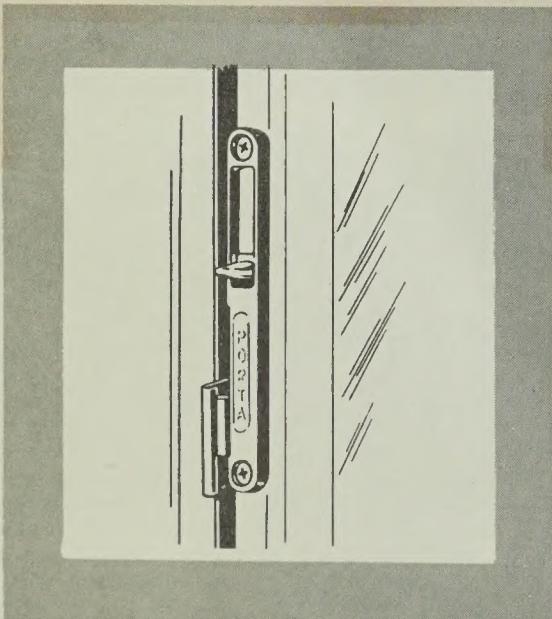


LAY-IN GLAZING

This glazing method utilizes extruded vinyl bead, allowing easy and rapid reglazing. No disassembling of sash frame!

CONDENSATION
CHANNEL & DRAIN

Sash and frame of exclusive design allow free run-off of condensation.



POSITIVE ACTION SLIDE LOCK

Chrome plated, vertical sliding, bolt and cam lock provides positive action with ease of operation.

- Non-corrosive Heliarc welds provide additional strength and insure watertight frame.
- Weatherstripped interlock.
- Large integral nailing fin pre-punched for rapid and secure installation.
- Easy application of wood or metal liners.
- Both sash operate, providing flexibility of ventilation.
- Provision for low-cost storm and screen panels.
- Rust and corrosion proof—maintenance free—no painting inside or out.
- Designed to compliment all types of architecture.
- Pitched sill for efficient drainage.

**BOTH SASH ARE EASILY REMOVED FOR FULL VENTILATION
OR CLEANING.**

SPECIFICATIONS

GENERAL and SCOPE: All aluminum windows of the types and sizes shown in the plans and/or as called for in this specification shall be furnished with all necessary hardware as herein specified and shall be manufactured by Porta Aluminum Inc., 303 Winding Road, Old Bethpage, New York, or duly authorized representatives or equal. Erection, installation; field glazing, if required, glazing compound, caulking, grouting and cleaning after erection and/or installation shall be by others.

MATERIALS: Frame and sash members shall be manufactured of 6063 T5 extruded aluminum alloy, minimum thickness of .062 inch (\pm commercial tolerances) in main members of frame and sash. All weatherstripping shall be wool pile and shall be contained in the horizontal and vertical members of vents. All hardware fastenings shall be stainless steel, aluminum or other material compatible with aluminum. All sash glides shall be of molded nylon.

CONSTRUCTION: Master frame shall be Heliarc welded. The frame consists of head, jambs and sill, in which two movable vents shall glide freely. Interior sash shall be $\frac{1}{8}$ " from interior edge of frame to allow condensation to drip into channel. Adequate drainage is provided by weep holes. Suitable accommodations shall be made for screens and storm panels. Sash may be removed for 100% ventilation and cleaning; but such sash will not be removable from the outside when locked in a closed position. Meeting rail interlock shall be weatherstripped with wool pile.

GLAZING: Windows shall be glazed with single or double strength glass by "lay-in" method, the glass being secured to sash frame by clear glazing compound and extruded vinyl bead. Vinyl bead shall be reusable in reglazing.

GLAZING BY OTHERS: Glazing shall be accomplished in accordance with detail drawings and shall conform to manufacturer's instructions.

INSTALLATION BY OTHERS: Contractors shall adhere to appropriate manufacturer's specifications and details for erection and caulking in order to provide watertight and workman-like installation. Frames shall be securely fastened in a level and plumb manner without twisting or forcing. Asphalt impregnated felt shall be applied behind aluminum fin trim.

FIN TRIM: Windows are also available with integral fin trim of extruded aluminum at the jambs, head and sill.

FINISH: The exposed surfaces of all aluminum members shall be cleaned to make them reasonably uniform in color and free from serious surface blemishes.

PERFORMANCE:

- A. HORIZONTAL LOAD PERFORMANCE PERPENDICULAR TO PLANE OF WINDOW.
- B. HORIZONTAL LOAD PERFORMANCE PARALLEL TO PLANE OF WINDOW.
- C. UNIFORM LOAD PERFORMANCE.
- D. AIR INFILTRATION PERFORMANCE.
- E. WATER RESISTANCE PERFORMANCE.

All of the above items, A through E inclusive, constitute the whole of, and shall be as set forth in the performance specifications for Classes I and II of Sliding Window Specifications HS A-1 of Architectural Aluminum Manufacturers Association as if fully set forth herein. Proof thereof shall be submitted upon request, and "Quality Certified" seal of said association shall be affixed to each window.

We reserve the right to change detail, designs or specifications at any time without prior notification.

SIZES

HEIGHT	WIDTH								
	20	30	40	50	60	70	80	90	
I.D.	1'10 $\frac{7}{8}$ "	2'10 $\frac{7}{8}$ "	3'10 $\frac{7}{8}$ "	4'10 $\frac{7}{8}$ "	5'10 $\frac{7}{8}$ "	6'10 $\frac{7}{8}$ "	7'10 $\frac{7}{8}$ "	8'10 $\frac{7}{8}$ "	
20	1'10 $\frac{7}{8}$ "								
30	2'10 $\frac{7}{8}$ "								
38	3'6 $\frac{7}{8}$ "								
40	3'10 $\frac{7}{8}$ "								

PICTURE WINDOWS: Variations of sash arrangements can be obtained to meet specific codes, requirements or standards.

STORM SASH AND SCREEN SPECIFICATIONS: Storm sash and screen extrusions* shall be manufactured of aluminum alloy 6063-T5. The screen is 18x14 mesh aluminum or fiberglass screening attached to the screen extrusions with vinyl spline. Weatherstripping shall be wool pile. Half screen on all windows, full screen available for 2 and 5 track windows.

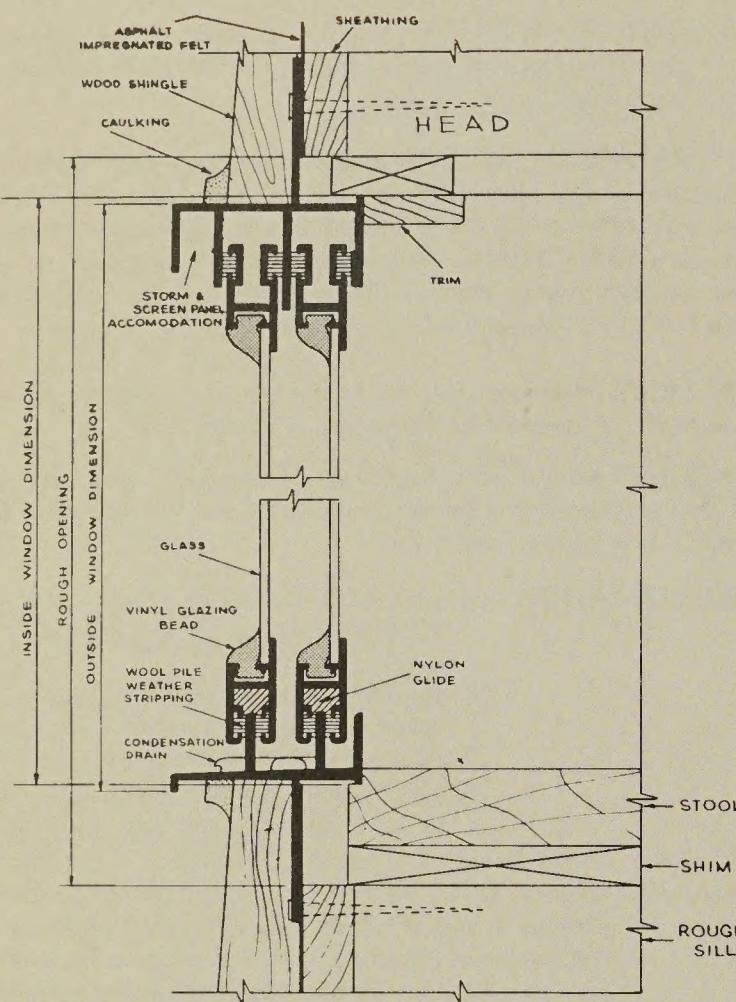
Glazing shall be with single or double strength glass by "lay-in" method. The glass is secured to sash frame by clear glazing compound and extruded vinyl bead. Vinyl bead shall be reusable for reglazing.

*Screens for 2-track window shall be of rolled aluminum.

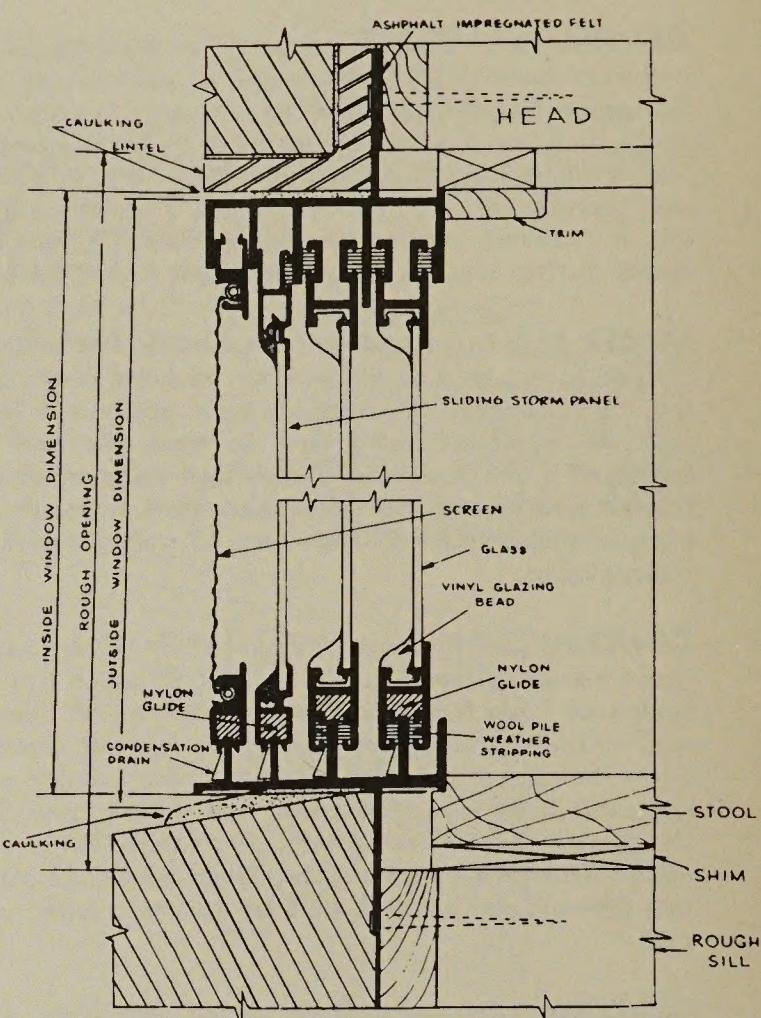
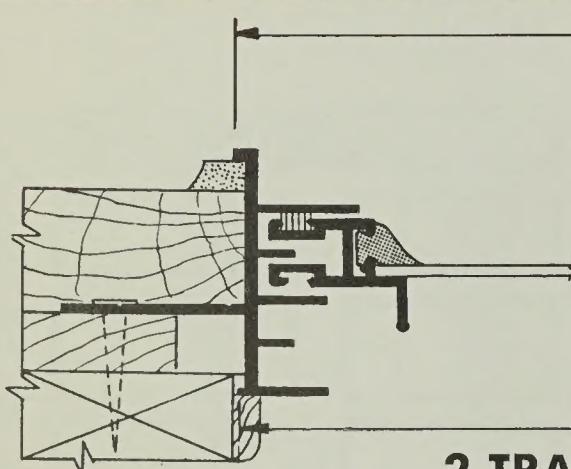
ALUMINUM SLIDING WINDOWS .

INSTALLATION DETAILS

2 TRACK FIN TRIM

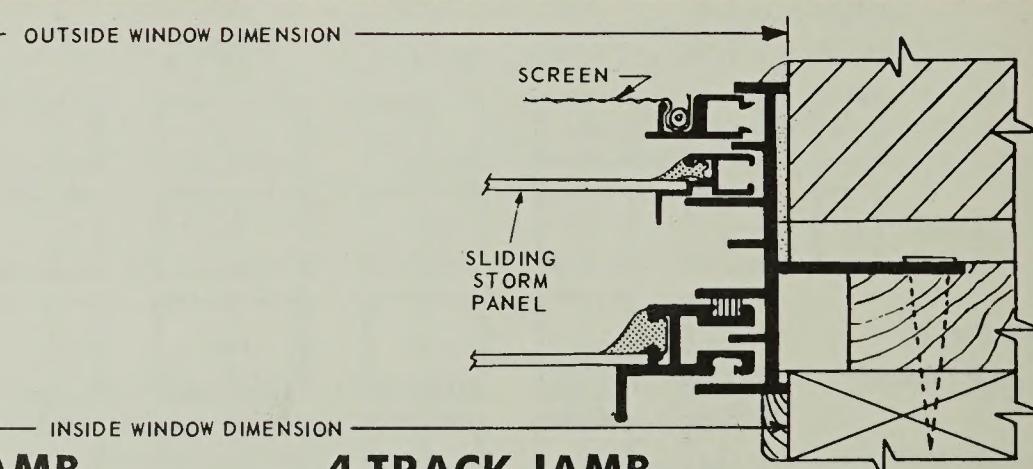
FRAME CONSTRUCTION
WITH WOOD SIDING

4 TRACK FIN TRIM

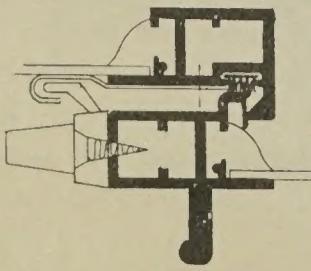
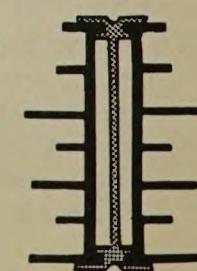
BRICK VENEER
CONSTRUCTION

2 TRACK JAMB

INSIDE WINDOW DIMENSION

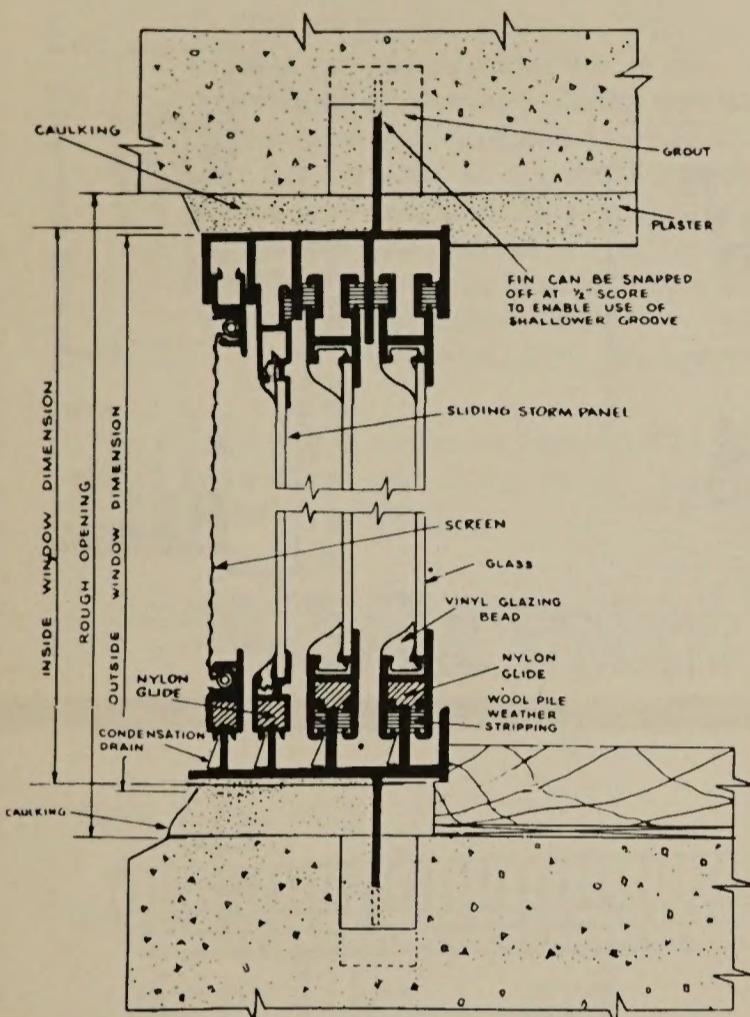


4 TRACK JAMB

STANDARD MEETING
RAIL DETAIL For all
vertical sliding windowsTYPICAL VERTICAL MULLION
FOR MULTIPLE WINDOWS

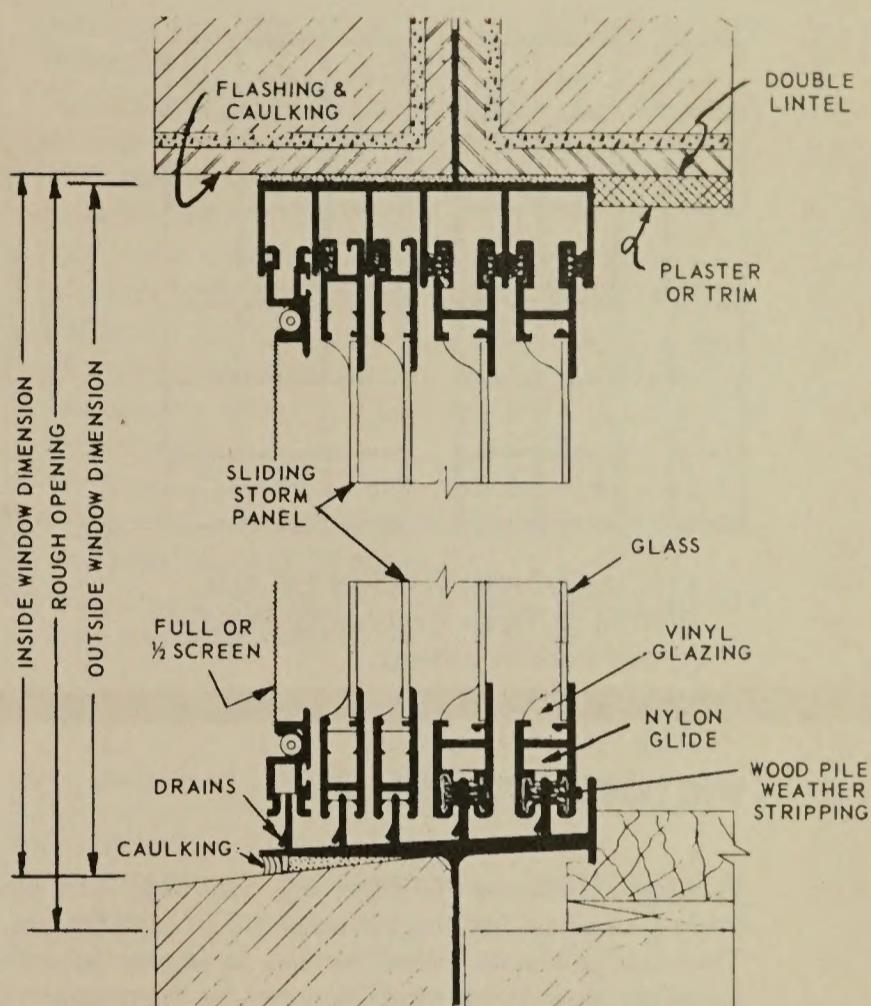
INSTALLATION DETAILS

4 TRACK FIN TRIM

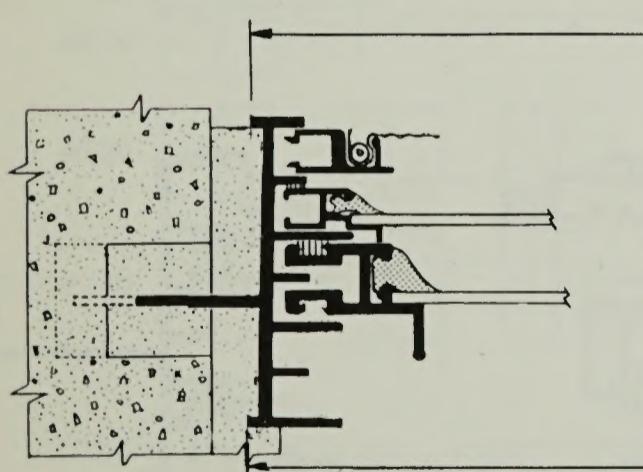


CONCRETE BLOCK
CONSTRUCTION

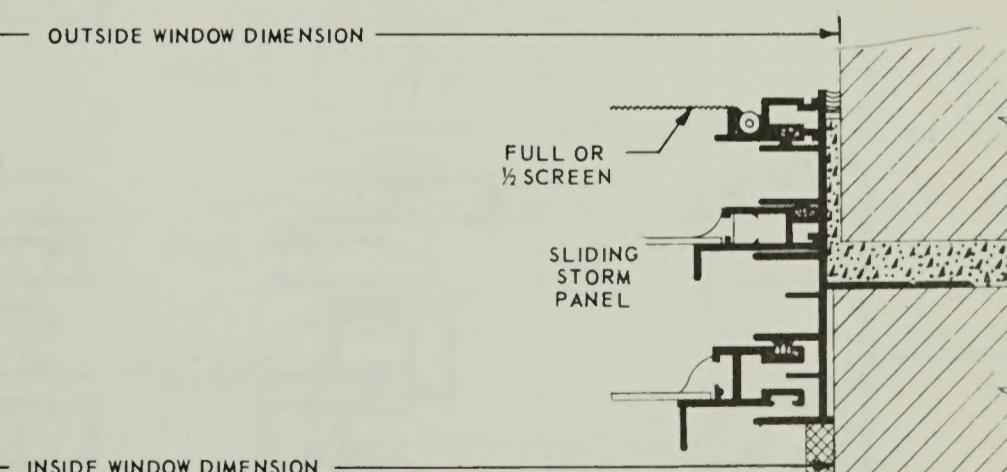
5 TRACK FIN TRIM



SOLID MASONRY
CONSTRUCTION



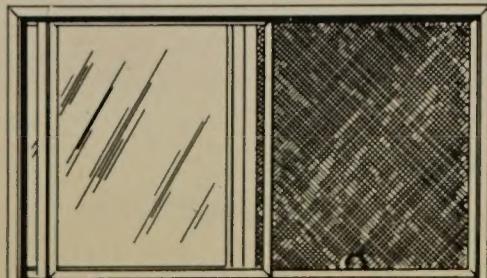
4 TRACK JAMB



5 TRACK JAMB

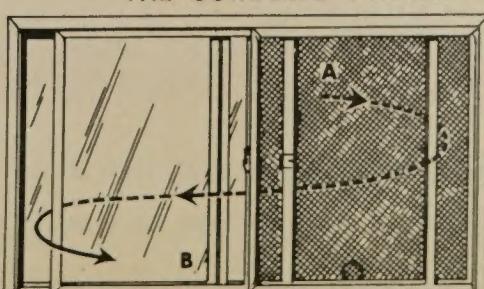
THE FLEXIBILITY OF SLIDERS BY PORTA

All
Panels
Are
Removable



Screen,
Storm
Panel
and
Sliding
Storm
Panel
in
open
position.

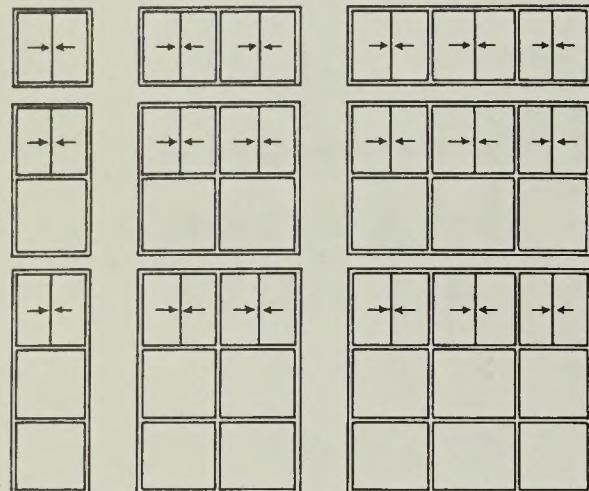
THE COMPLETE 4-TRACK WINDOW IN OPEN POSITION:



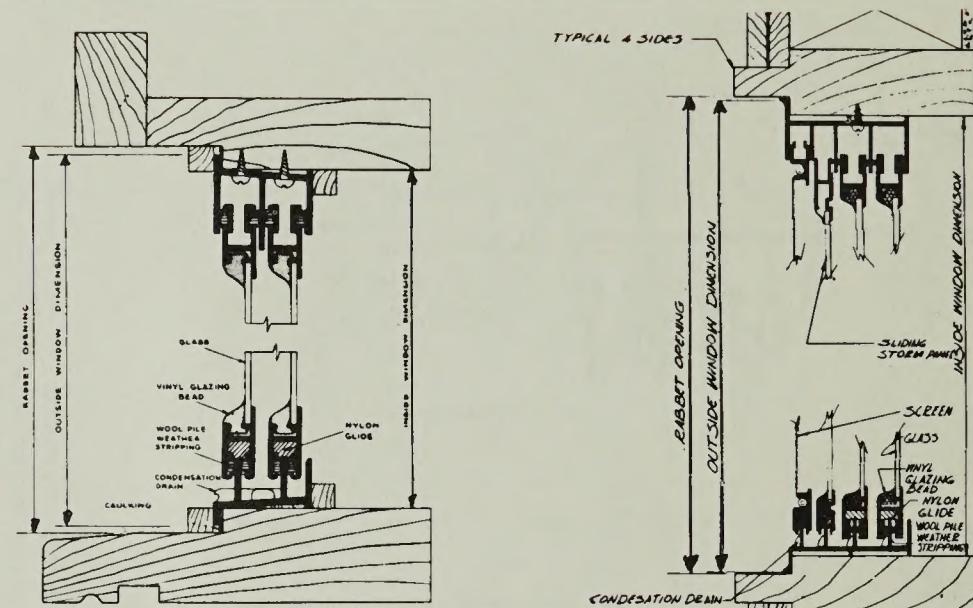
Storm panel, screen and Sliding Storm Panel with the Prime Sliding Sash. This offers the best indirect ventilation for any home. (Cool outdoor air, Arrow "A", flows in thru Sliding Storm Sash, is channeled thru window and into home thru opening left by Sliding Prime Sash, Arrow "B".

ALUMINUM SLIDING WINDOWS .

WOOD BUCK INSTALLATION



TYPICAL COMBINATIONS OF ALUMINUM SLIDERS IN WOOD BUCK
(Wood Buck by others).

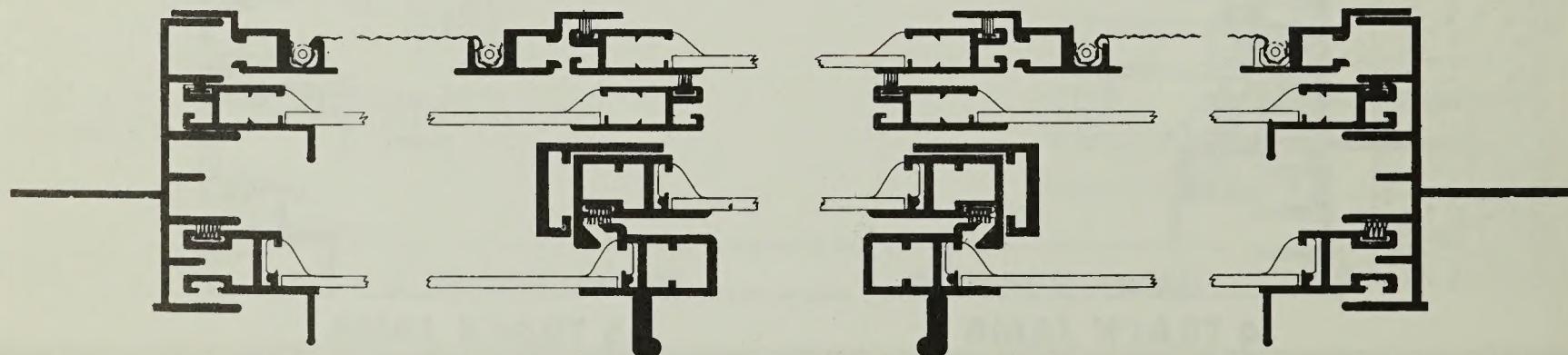
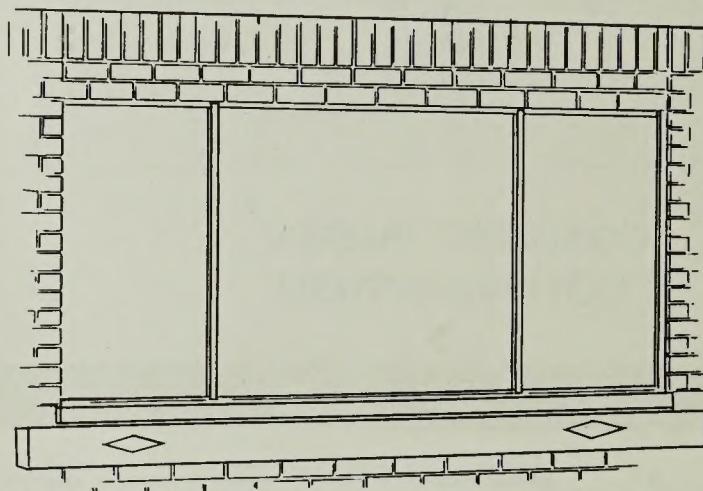


CONSTRUCTION DETAILS OF
WINDOWS IN WOOD BUCK

PICTURE WINDOW

Portalume's Picture Windows are available in a wide variety of sizes, for wood buck and fin installations.* They are perfectly suited for use in rooms requiring large window areas and become the focal point in the decor of any room. Center panel is removable without removing vertical support bars and is glazed with double strength glass.

*Variations of sash arrangements can be obtained to meet specific codes, requirements or standards.



CONSTRUCTION DETAILS OF 4-TRACK PICTURE WINDOW
Picture windows available in all types of PORTALUME sliders.

MUNTIN VARIATIONS

The use of Portalume Muntin Windows fulfills the demand for various architectural styles with all the advantages of aluminum sliding windows—including the removability of both sash. Since the muntin sash are inserted in regular Portalume window frames, such sash is not only removable but is interchangeable with sash that do not have muntins. All sizes, rough openings, and installation details are identical with regular size sliders.

(See elevations on this page.)

Reglazing is similar to reglazing of regular sash, in that the sash frame is not disassembled for reglazing purposes.

Each light, in all variations (A, B, & C) can be reglazed individually resulting in a minimum re-

glazing cost. The same "lay-in" method is used throughout.

Through the many muntin variations provided, there is afforded many types of architectural treatment. The designs can dress up front elevations only, if so preferred.

"A" style simulates one over one double hung windows and can be used in all types of architecture.

"B" style simulates awning windows or two over two double hungs and can be used in all types of architecture.

"C" style simulates casement or six over six double hungs and meets the popular demand for colonial and traditional architecture.

When ordering muntin windows, please specify style and size. State size first, then letter.

	A	B	C
2020			
3020			
3030			
3040			
4020			
4030			
4040			
5020			
5030			
5040			

	A	B	C
6020			
6030			
6040			
7030			
7040			
8030			
8040			
9030			
9040			

Other variations of arrangements and sizes available. Inquire.

NOTE: Sandblasted Diamond-Lite designs in 30 and 40 heights also available. Please inquire.

ALUMINUM SLIDING WINDOWS .

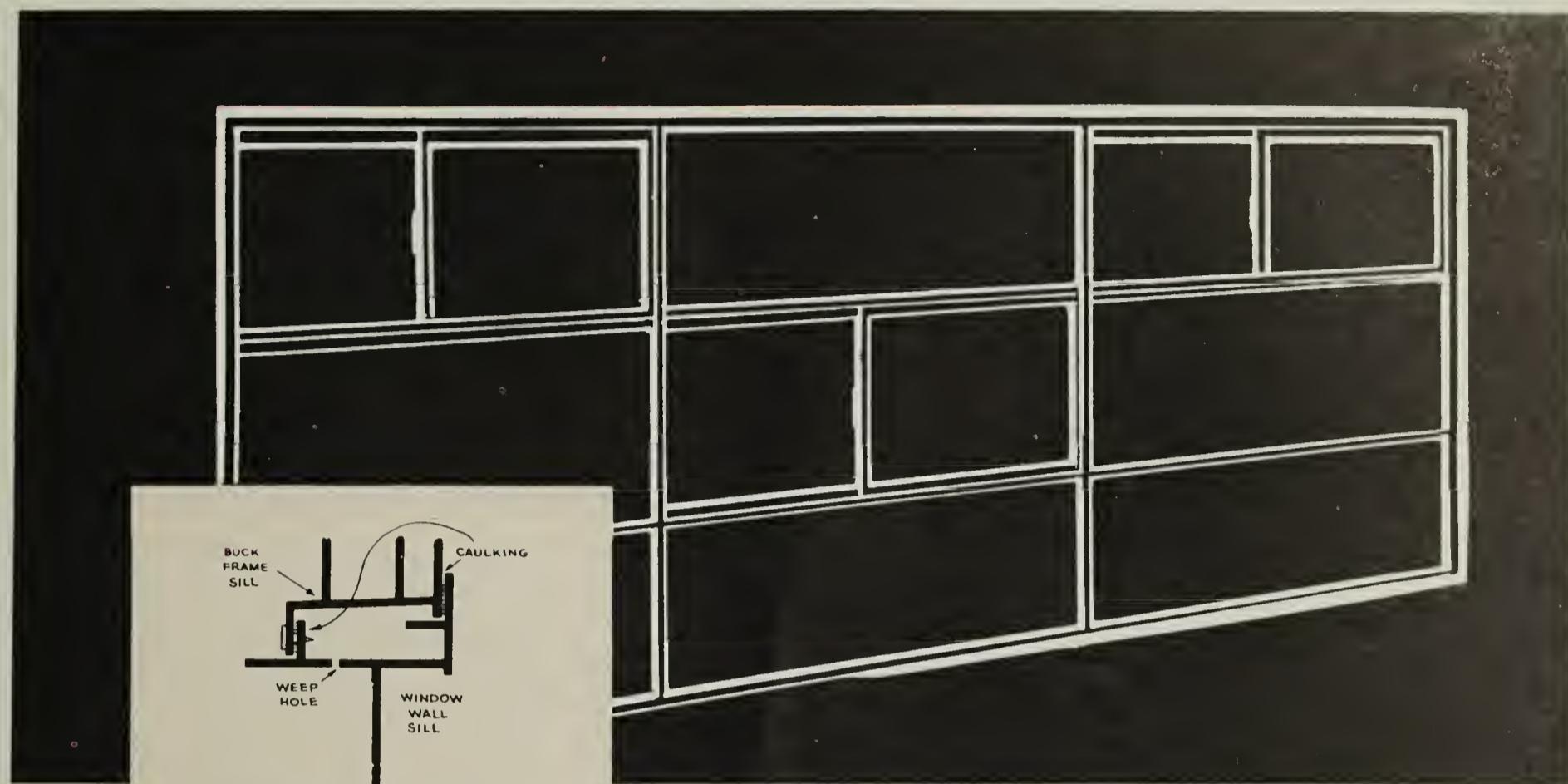
DIMENSION AREA AND SIZE DATA

NOMINAL SIZE	WINDOW AREA (A)*	VENT. AREA (A)*	OUTSIDE WINDOW DIMENSION		INSIDE WINDOW DIMENSION		ROUGH OPENINGS (C)***	OUTSIDE WINDOW DIMENSION		BUCK FRAME 2-TRACK OR 4-TRACK	GLASS SIZES
			WIDTH	HEIGHT	WIDTH	HEIGHT		WIDTH	HEIGHT		
1117 S	2.34	.99	1'10 $\frac{1}{8}$ " x 1'6 $\frac{1}{8}$ "		1'10 $\frac{1}{4}$ " x 1'6 $\frac{1}{4}$ "		1'10 $\frac{1}{8}$ " x 1'7"		1'11" x 1'7"	1'11 $\frac{1}{4}$ " x 1'7 $\frac{1}{8}$ "	9 $\frac{1}{8}$ " x 15 $\frac{1}{2}$ "
3020 S	5.04	2.28	2'11 $\frac{1}{2}$ " x 1'11 $\frac{1}{2}$ "		2'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "		2'11 $\frac{1}{4}$ " x 2'0 $\frac{1}{8}$ "		3'0 $\frac{1}{8}$ " x 2'0 $\frac{1}{8}$ "	3'0 $\frac{1}{4}$ " x 2'0 $\frac{1}{4}$ "	16 $\frac{1}{4}$ " x 20 $\frac{1}{8}$ "
3921 S	6.92	3.20	3'9" x 2'1"		3'8 $\frac{1}{8}$ " x 2'0 $\frac{1}{8}$ "		3'9 $\frac{1}{4}$ " x 2'1 $\frac{1}{8}$ "		3'9 $\frac{1}{8}$ " x 2'1 $\frac{1}{4}$ "		21" x 22 $\frac{1}{8}$ "
2020	3.08	1.31	1'11" x 1'11"		1'10 $\frac{1}{8}$ " x 1'10 $\frac{1}{8}$ "		1'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "		1'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "		10" x 20 $\frac{1}{8}$ "
2030	4.95	2.00	1'11" x 2'11"		1'10 $\frac{1}{8}$ " x 2'10 $\frac{1}{8}$ "		1'11 $\frac{1}{4}$ " x 2'11 $\frac{1}{4}$ "		1'11 $\frac{1}{8}$ " x 2'11 $\frac{1}{8}$ "		10" x 32 $\frac{1}{8}$ "
3020	4.95	2.19	2'11" x 1'11"		2'10 $\frac{1}{8}$ " x 1'10 $\frac{1}{8}$ "		2'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "		2'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "		16" x 20 $\frac{1}{8}$ "
3030	7.59	3.43	2'11" x 2'11"		2'10 $\frac{1}{8}$ " x 2'10 $\frac{1}{8}$ "		2'11 $\frac{1}{4}$ " x 2'11 $\frac{1}{4}$ "		2'11 $\frac{1}{8}$ " x 2'11 $\frac{1}{8}$ "		16" x 32 $\frac{1}{8}$ "
3038	9.43	4.76	2'11" x 3'7"		2'10 $\frac{1}{8}$ " x 3'6 $\frac{1}{8}$ "		2'11 $\frac{1}{4}$ " x 3'7 $\frac{1}{8}$ "		2'11 $\frac{1}{8}$ " x 3'7 $\frac{1}{4}$ "		16" x 40 $\frac{1}{8}$ "
3040	10.34	5.23	2'11" x 3'11"		2'10 $\frac{1}{8}$ " x 3'10 $\frac{1}{8}$ "		2'11 $\frac{1}{4}$ " x 3'11 $\frac{1}{4}$ "		2'11 $\frac{1}{8}$ " x 3'11 $\frac{1}{8}$ "		16" x 44 $\frac{1}{8}$ "
4020	6.61	3.07	3'11" x 1'11"		3'10 $\frac{1}{8}$ " x 1'10 $\frac{1}{8}$ "		3'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "		3'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "		22" x 20 $\frac{1}{8}$ "
4030	10.36	4.82	3'11" x 2'11"		3'10 $\frac{1}{8}$ " x 2'10 $\frac{1}{8}$ "		3'11 $\frac{1}{4}$ " x 2'11 $\frac{1}{4}$ "		3'11 $\frac{1}{8}$ " x 2'11 $\frac{1}{8}$ "		22" x 32 $\frac{1}{8}$ "
4038	12.86	6.48	3'11" x 3'7"		3'10 $\frac{1}{8}$ " x 3'6 $\frac{1}{8}$ "		3'11 $\frac{1}{4}$ " x 3'7 $\frac{1}{8}$ "		3'11 $\frac{1}{8}$ " x 3'7 $\frac{1}{4}$ "		22" x 40 $\frac{1}{8}$ "
4040	14.11	7.11	3'11" x 3'11"		3'10 $\frac{1}{8}$ " x 3'10 $\frac{1}{8}$ "		3'11 $\frac{1}{4}$ " x 3'11 $\frac{1}{4}$ "		3'11 $\frac{1}{8}$ " x 3'11 $\frac{1}{8}$ "		22" x 44 $\frac{1}{8}$ "
5020	8.38	3.96	4'11" x 1'1"		4'10 $\frac{1}{8}$ " x 1'10 $\frac{1}{8}$ "		4'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "		4'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "		28" x 20 $\frac{1}{8}$ "
5030	13.12	6.20	4'11" x 2'11"		4'10 $\frac{1}{8}$ " x 2'10 $\frac{1}{8}$ "		4'11 $\frac{1}{4}$ " x 2'11 $\frac{1}{4}$ "		4'11 $\frac{1}{8}$ " x 2'11 $\frac{1}{8}$ "		28" x 32 $\frac{1}{8}$ "
5038	16.29	8.19	4'11" x 3'7"		4'10 $\frac{1}{8}$ " x 3'6 $\frac{1}{8}$ "		4'11 $\frac{1}{4}$ " x 3'7 $\frac{1}{8}$ "		4'11 $\frac{1}{8}$ " x 3'7 $\frac{1}{4}$ "		28" x 40 $\frac{1}{8}$ "
5040	17.87	8.99	4'11" x 3'11"		4'10 $\frac{1}{8}$ " x 3'10 $\frac{1}{8}$ "		4'11 $\frac{1}{4}$ " x 3'11 $\frac{1}{4}$ "		4'11 $\frac{1}{8}$ " x 3'11 $\frac{1}{8}$ "		28" x 44 $\frac{1}{8}$ "
6020	10.14	4.84	5'11" x 1'11"		5'10 $\frac{1}{8}$ " x 1'10 $\frac{1}{8}$ "		5'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "		5'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "		34" x 20 $\frac{1}{8}$ "
6030	15.89	7.58	5'11" x 2'11"		5'10 $\frac{1}{8}$ " x 2'10 $\frac{1}{8}$ "		5'11 $\frac{1}{4}$ " x 2'11 $\frac{1}{4}$ "		5'11 $\frac{1}{8}$ " x 2'11 $\frac{1}{8}$ "		34" x 32 $\frac{1}{8}$ "
6038	19.72	9.41	5'11" x 3'7"		5'10 $\frac{1}{8}$ " x 3'6 $\frac{1}{8}$ "		5'11 $\frac{1}{4}$ " x 3'7 $\frac{1}{8}$ "		5'11 $\frac{1}{8}$ " x 3'7 $\frac{1}{4}$ "		34" x 40 $\frac{1}{8}$ "
6040	21.64	10.87	5'11" x 3'11"		5'10 $\frac{1}{8}$ " x 3'10 $\frac{1}{8}$ "		5'11 $\frac{1}{4}$ " x 3'11 $\frac{1}{4}$ "		5'11 $\frac{1}{8}$ " x 3'11 $\frac{1}{8}$ "		34" x 44 $\frac{1}{8}$ "
7020	12.62	5.96	6'11" x 1'11"		6'10 $\frac{1}{8}$ " x 1'10 $\frac{1}{8}$ "		6'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "		6'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "		40" x 20 $\frac{1}{8}$ "
8020	14.48	7.51	7'11" x 1'11"		7'10 $\frac{1}{8}$ " x 1'10 $\frac{1}{8}$ "		7'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "		7'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "		46" x 20 $\frac{1}{8}$ "

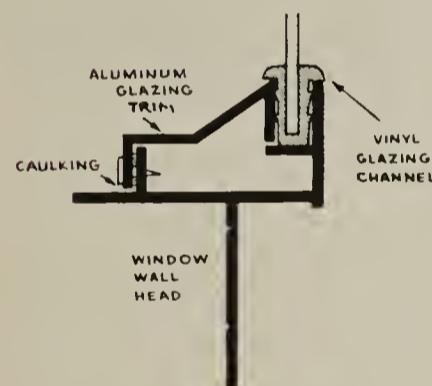
PICTURE WINDOWS

6020 PW	10.14	4.58	5'11" x 1'11"	5'10 $\frac{1}{8}$ " x 1'10 $\frac{1}{8}$ "	5'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "	5'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "	5'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "	5'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "	16 $\frac{1}{8}$ " x 20 $\frac{1}{8}$ "	35" x 20 $\frac{1}{8}$ "
6030 PW	15.89	7.18	5'11" x 2'11"	5'10 $\frac{1}{8}$ " x 2'10 $\frac{1}{8}$ "	5'11 $\frac{1}{4}$ " x 2'11 $\frac{1}{4}$ "	5'11 $\frac{1}{8}$ " x 2'11 $\frac{1}{8}$ "	5'11 $\frac{1}{4}$ " x 2'11 $\frac{1}{4}$ "	5'11 $\frac{1}{8}$ " x 2'11 $\frac{1}{8}$ "	16" x 32 $\frac{1}{8}$ "	35" x 32 $\frac{1}{8}$ "
6038 PW	19.72	8.88	5'11" x 3'7"	5'10 $\frac{1}{8}$ " x 3'6 $\frac{1}{8}$ "	5'11 $\frac{1}{4}$ " x 3'7 $\frac{1}{8}$ "	5'11 $\frac{1}{8}$ " x 3'7 $\frac{1}{4}$ "	5'11 $\frac{1}{4}$ " x 3'7 $\frac{1}{4}$ "	5'11 $\frac{1}{8}$ " x 3'7 $\frac{1}{4}$ "	16" x 40 $\frac{1}{8}$ "	35" x 40 $\frac{1}{8}$ "
6040 PW	21.64	9.74	5'11" x 3'11"	5'10 $\frac{1}{8}$ " x 3'10 $\frac{1}{8}$ "	5'11 $\frac{1}{4}$ " x 3'11 $\frac{1}{4}$ "	5'11 $\frac{1}{8}$ " x 3'11 $\frac{1}{8}$ "	5'11 $\frac{1}{4}$ " x 3'11 $\frac{1}{8}$ "	5'11 $\frac{1}{8}$ " x 3'11 $\frac{1}{8}$ "	16" x 44 $\frac{1}{8}$ "	35" x 44 $\frac{1}{8}$ "
7020 PW	12.62	5.46	6'11" x 1'11"	6'10 $\frac{1}{8}$ " x 1'10 $\frac{1}{8}$ "	6'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "	6'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "	6'11 $\frac{1}{4}$ " x 1'11 $\frac{1}{4}$ "	6'11 $\frac{1}{8}$ " x 1'11 $\frac{1}{8}$ "	19" x 20 $\frac{1}{8}$ "	41" x 20 $\frac{1}{8}$ "
7030 PW	18.65	8.90	6'11" x 2'11"	6'10 $\frac{1}{8}$ " x 2'10 $\frac{1}{8}$ "	6'11 $\frac{1}{4}$ " x 2'11 $\frac{1}{4}$ "	6'11 $\frac{1}{8}$ " x 2'11 $\frac{1}{8}$ "	6'11 $\frac{1}{4}$ " x 2'11 $\frac{1}{4}$ "	6'11 $\frac{1}{8}$ " x 2'11 $\frac{1}{8}$ "	19" x 32 $\frac{1}{8}$ "	41" x 32 $\frac{1}{8}$ "
7038 PW	23.15	11.33	6'11" x 3'7"	6'10 $\frac{1}{8}$ " x 3'6 $\frac{1}{8}$ "	6'11 $\frac{1}{4}$ " x 3'7 $\frac{1}{8}$ "	6'11 $\frac{1}{8}$ " x 3'7 $\frac{1}{4}$ "	6'11 $\frac{1}{4}$ " x 3'7 $\frac{1}{4}$ "	6'11 $\frac{1}{8}$ " x 3'7 $\frac{1}{4}$ "	19" x 40 $\frac{1}{8}$ "	41" x 40 $\frac{1}{8}$ "
7040 PW	25.40	11.54	6'11" x 3'11"	6'10 $\frac{1}{8}$ " x 3'10 $\frac{1}{8}$ "	6'11 $\frac{1}{4}$ " x 3'11 $\frac{1}{4}$ "	6'11 $\frac{1}{8}$ " x 3'11 $\frac{1}{8}$ "	6'11 $\frac{1}{4}$ " x 3'11 $\frac{1}{8}$ "	6'11 $\frac{1}{8}$ " x 3'11 $\frac{1}{8}$ "	19" x 44 $\frac{1}{8}$ "	41" x 44 $\frac{1}{$

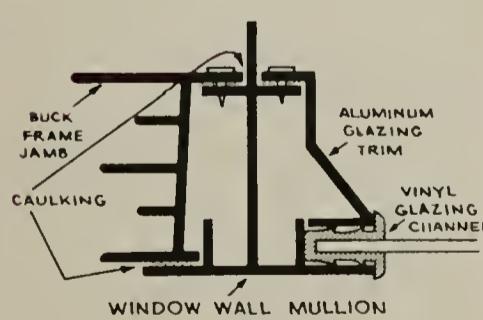
WINDOW WALL



BUCK FRAME INSERT



DEADLITE



MULLION

We reserve the right to change detail, designs or specifications at any time without prior notification.

For installation details see pages 6 and 7

The Portalume Window Wall, combining sliding windows and fixed lites, is designed to meet the needs of architects and builders in all types of residential and light construction. Smart and sturdy, adds distinction to any room! Available only with two track buck windows. Deadlites will accommodate S.S. and D.S. Glass.

SPECIALS TOO!

Custom building? Special needs? Porta will design these windows into many interesting mullion and muntin arrangements... the answer to your particular window problem is just as close as your telephone!

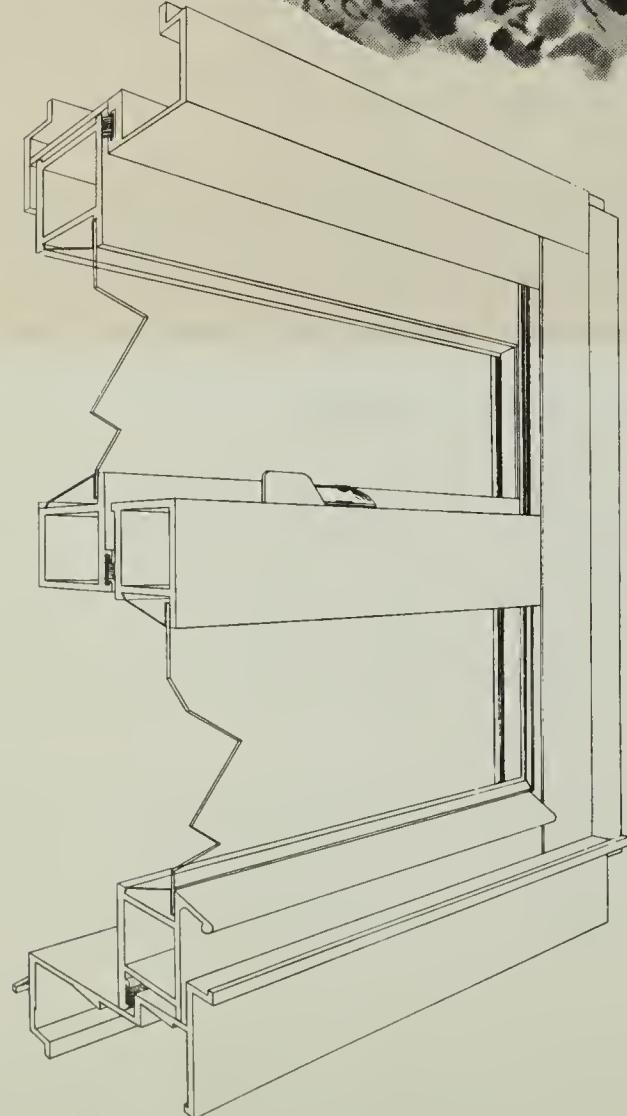
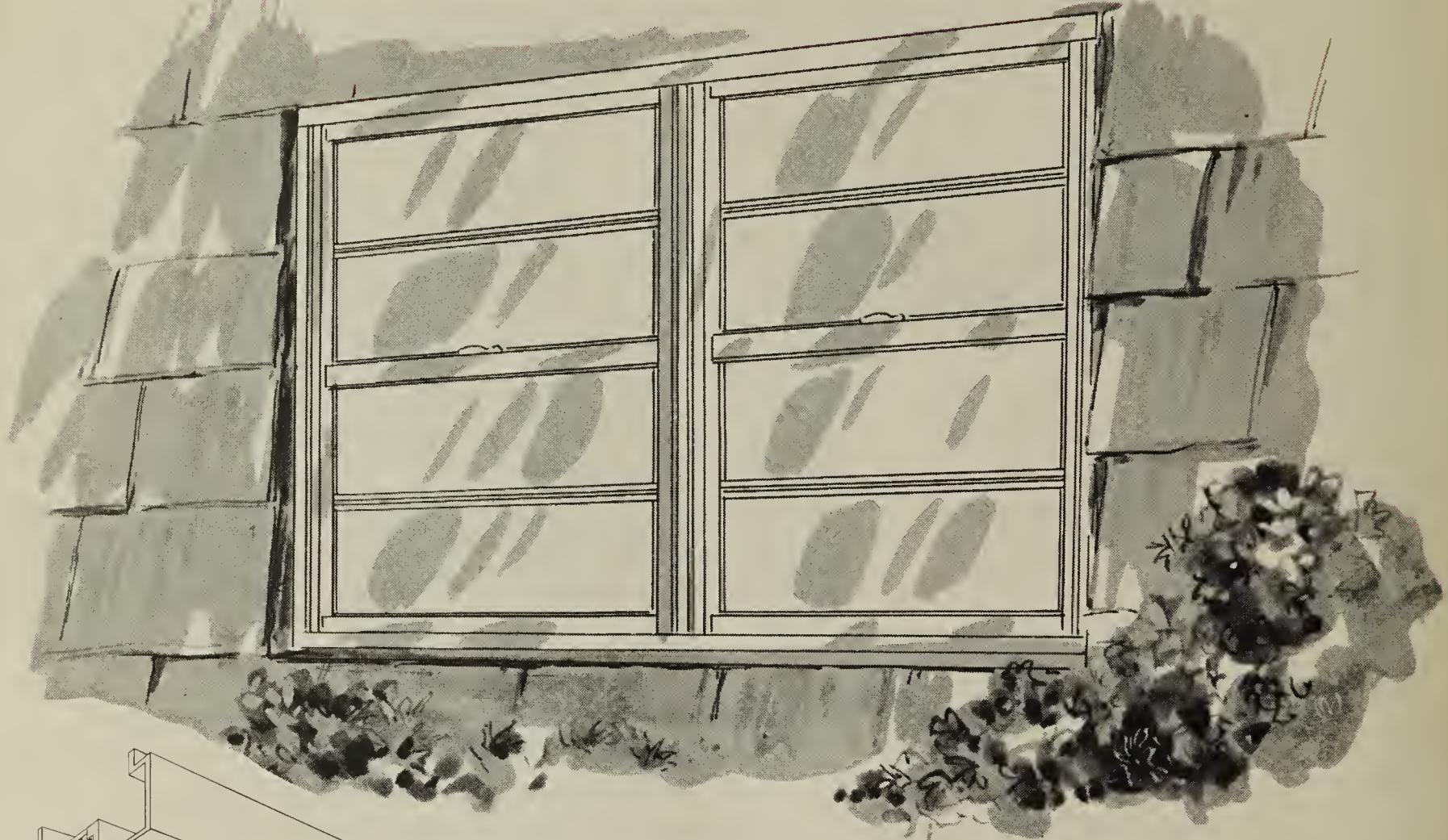
WINDOW WALL SIZE CHART

SIZE	INSIDE WINDOW DIMENSION		ROUGH OPENING		SIZE	INSIDE WINDOW DIMENSION		ROUGH OPENING	
	Width	Height	Width	Height		Width	Height	Width	Height
20	2'0"		2'0 ¹ / ₂ "		20	2'0"		2'0 ¹ / ₂ "	
30 40	3'0" 3'11 ¹ / ₂ "	3'11 ¹ / ₂ "	3'0 ¹ / ₂ " 4'0 ¹ / ₂ "		30 60	3'0" 5'11 ¹ / ₂ "	3'11 ¹ / ₂ "	3'0 ¹ / ₂ " 6'0 ¹ / ₂ "	
40	4'0"		4'0 ¹ / ₂ "		40	4'0"		4'0 ¹ / ₂ "	
20	2'0"		2'0 ¹ / ₂ "		20	2'0"		2'0 ¹ / ₂ "	
30 60	3'0" 5'11 ¹ / ₂ "	3'11 ¹ / ₂ "	3'0 ¹ / ₂ " 5'0 ¹ / ₂ "		30 90	3'0" 8'11 ¹ / ₂ "	8'11 ¹ / ₂ "	3'0 ¹ / ₂ " 9'0 ¹ / ₂ "	
40	4'0"		4'0 ¹ / ₂ "		40	4'0"		4'0 ¹ / ₂ "	
2-20	3'11 ¹ / ₂ "		4'0 ¹ / ₂ "		2-20	3'11 ¹ / ₂ "		4'0 ¹ / ₂ "	
2-30 40	5'11 ¹ / ₂ " 3'11 ¹ / ₂ "	3'11 ¹ / ₂ "	6'0 ¹ / ₂ " 4'0 ¹ / ₂ "		2-30 60	5'11 ¹ / ₂ " 5'11 ¹ / ₂ "	5'11 ¹ / ₂ "	6'0 ¹ / ₂ " 6'0 ¹ / ₂ "	
2-40	7'11 ¹ / ₂ "		8'0 ¹ / ₂ "		2-40	7'11 ¹ / ₂ "		8'0 ¹ / ₂ "	
2-20	3'11 ¹ / ₂ "		4'0 ¹ / ₂ "		2-20	3'11 ¹ / ₂ "		4'0 ¹ / ₂ "	
2-30 60	5'11 ¹ / ₂ " 5'11 ¹ / ₂ "	5'11 ¹ / ₂ "	6'0 ¹ / ₂ " 5'0 ¹ / ₂ "		2-30 90	5'11 ¹ / ₂ " 8'11 ¹ / ₂ "	8'11 ¹ / ₂ "	6'0 ¹ / ₂ " 9'0 ¹ / ₂ "	
2-40	7'11 ¹ / ₂ "		8'0 ¹ / ₂ "		2-40	7'11 ¹ / ₂ "		8'0 ¹ / ₂ "	
3-20	5'11 ¹ / ₂ "		6'0"		3-20	5'11 ¹ / ₂ "		6'0"	
3-30 40	8'11 ¹ / ₂ " 3'11 ¹ / ₂ "	3'11 ¹ / ₂ "	9'0" 4'0 ¹ / ₂ "		3-30 60	8'11 ¹ / ₂ " 5'11 ¹ / ₂ "	5'11 ¹ / ₂ "	9'0" 6'0 ¹ / ₂ "	
3-40	11'11 ¹ / ₂ "		12'0"		3-40	11'11 ¹ / ₂ "		12'0"	
3-20	5'11 ¹ / ₂ "		6'0"		3-20	5'11 ¹ / ₂ "		6'0"	
3-30 60	8'11 ¹ / ₂ " 5'11 ¹ / ₂ "	5'11 ¹ / ₂ "	9'0" 5'0 ¹ / ₂ "		3-30 90	8'11 ¹ / ₂ " 8'11 ¹ / ₂ "	8'11 ¹ / ₂ "	9'0" 8'0 ¹ / ₂ "	
3-40	11'11 ¹ / ₂ "		12'0"		3-40	11'11 ¹ / ₂ "		12'0"	

WINDOW
WALL

ALUMINUM DOUBLE HUNG WINDOWS . .

FEATURES



WOOL PILE WEATHERSTRIPPING around perimeter of sash provides silent, efficient, long lasting protection against the elements. The use of wool pile eliminates metal-to-metal contact, thus avoiding the prime cause of binding.

SELF-LUBRICATING NYLON GLIDES to insure proper alignment of frame and easy, noiseless operation of both sash.

ADJUSTABLE BALANCES are aluminum tube covered, spring compensated and spiral balanced to provide easy lifting and to hold sash at any opening level.

LINERS of wood or metal are easily applied.

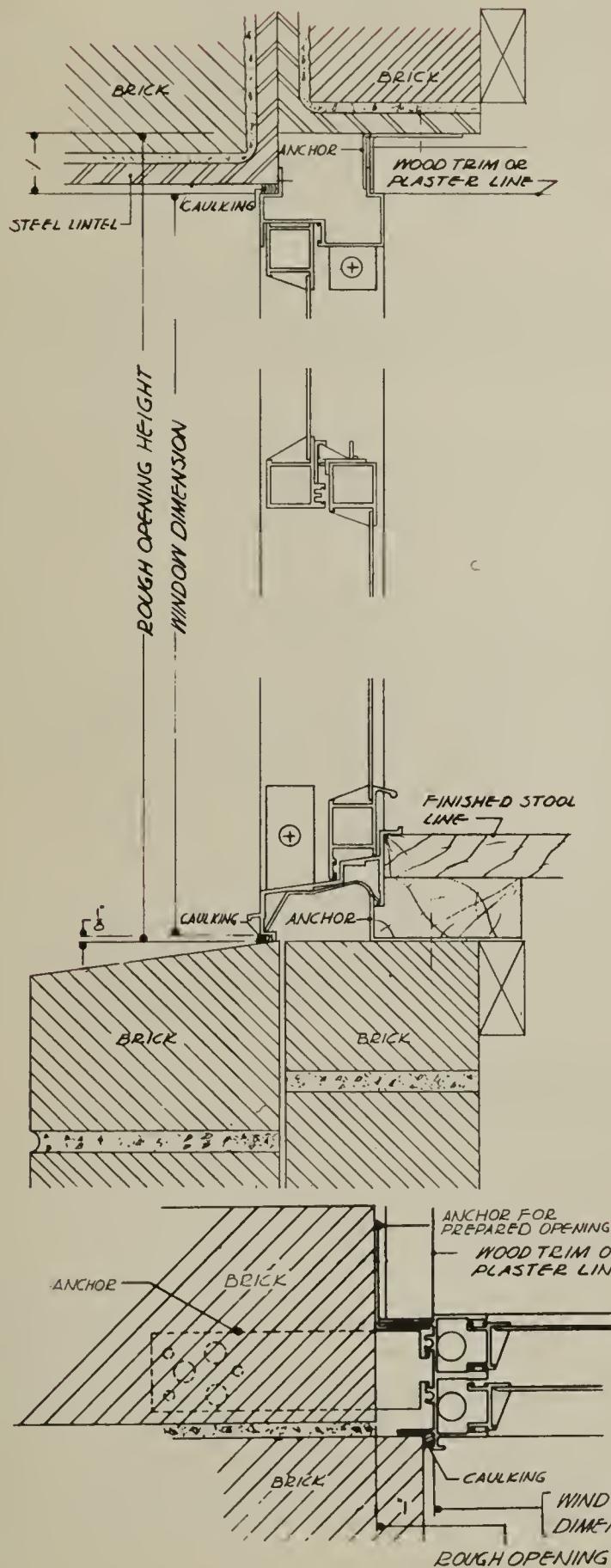
MUNTIN ARRANGEMENTS are available for various elevations.

INTERLOCKING MAIN FRAME JAMBS eliminate need for separate mullions. Available in all combinations with or without picture windows.

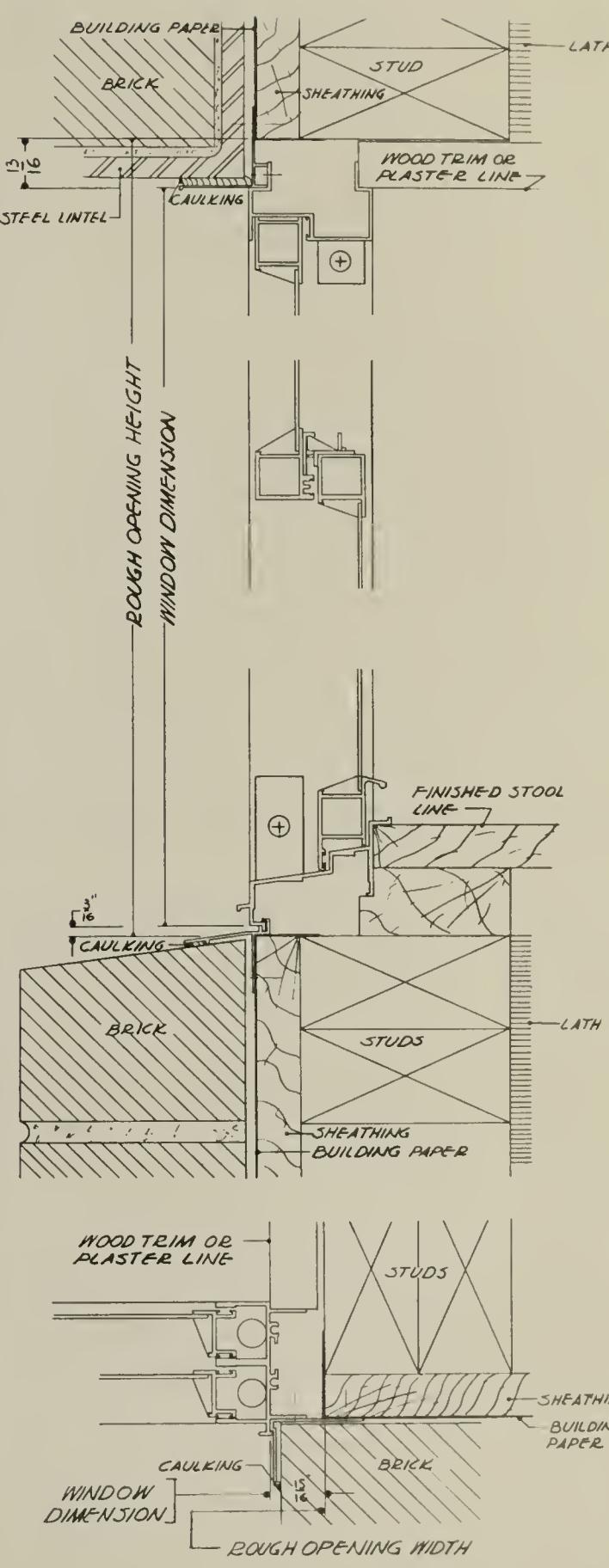
COMBINATIONS ALSO AVAILABLE WITH ONE-PIECE HEAD AND SILL.

INSTALLATION DETAILS

DOUBLE HUNG
WINDOWS



SOLID BRICK CONSTRUCTION



**BRICK VENEER CONSTRUCTION
WITH FIN TRIM**

ALUMINUM DOUBLE HUNG WINDOWS..

TYPES, SIZES and ROUGH OPENINGS

DOUBLE HUNG WINDOWS

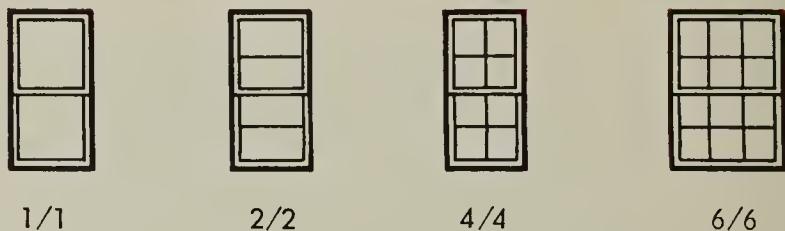
WD*	2'0 1/8"	2'4 1/8"	2'8 1/8"	3'0 1/8"	3'4 1/8"	3'8 1/8"
3'1 3/8"						
2032	2032	2432	2832	3032	3432	3832
3'9 3/8"						
20310	20310	24310	28310	30310	34310	38310
4'1 3/8"						
2042	2042	2442	2842	3042	3442	3842
4'5 3/8"						
2046	2046	2446	2846	3046	3446	3846
5'1 3/8"						
2052	2052	2452	2852	3052	3452	3852

*Window Dimension

THE ABOVE DIAGRAMS SHOW NOMINAL SIZES ONLY.
FOR ROUGH OPENINGS SEE CHART BELOW.

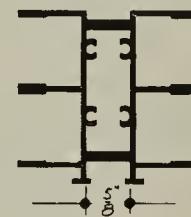
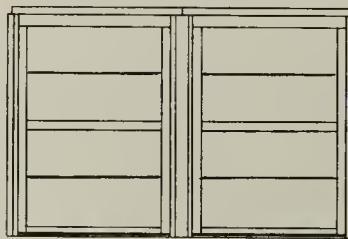
Unless otherwise specified PORTALUME Double Hung Windows,
Series 900, will be supplied 2/2 as diagrammed above.

MUNTIN VARIATIONS



When specifying muntin variations (other than 2/2, which will be supplied if you do not specify otherwise), show the size of the windows followed by the muntin variation desired according to the chart above (e.g. 3042-6/6).

MULLED WINDOWS



Windows are mullioned by interlocking jambs. Secure with 6x3/8 st/st screws spaced on 1" centers on interior and exterior faces. Windows shall be caulked at exterior joining. Continuous head and sill fin trim on all multiple units, when ordered.

PORALUME DOUBLE HUNG WINDOW—SERIES 900 ROUGH OPENINGS WITH AND WITHOUT FIN TRIM ATTACHED

NOM. SIZES		W I D T H S				NOM. SIZES		W I D T H S					
WIDTH	HEIGHT	SINGLE	DOUBLE	TRIPLE	QUAD.	HEIGHT	WIDTH	HEIGHT	SINGLE	DOUBLE	TRIPLE	QUAD.	HEIGHT
20	32					3'2 1/2"	32	3'2 1/2"					3'2 1/2"
	36					3'6 1/2"	36	3'6 1/2"					3'6 1/2"
	310	2'2 1/8"	4'2 7/8"	6'3 5/8"	8'4 3/8"	3'10 1/2"	30	3'2 1/8"	6'2 7/8"	9'3 5/8"	12'4 3/8"	3'10 1/2"	3'10 1/2"
	42					4'2 1/2"	42	3'2 1/8"					4'2 1/2"
	46					4'6 1/2"	46	3'6 1/2"					4'6 1/2"
	52					5'2 1/2"	52	3'2 1/2"					5'2 1/2"
24	32					3'2 1/2"	32	3'2 1/2"					3'2 1/2"
	36					3'6 1/2"	36	3'6 1/2"					3'6 1/2"
	310	2'6 1/8"	4'10 7/8"	7'3 5/8"	9'8 3/8"	3'10 1/2"	34	3'6 1/8"	6'10 7/8"	10'3 5/8"	13'8 3/8"	3'10 1/2"	3'10 1/2"
	42					4'2 1/2"	42	3'6 1/8"					4'2 1/2"
	46					4'6 1/2"	46	3'6 1/2"					4'6 1/2"
	52					5'2 1/2"	52	3'2 1/2"					5'2 1/2"
28	32					3'2 1/2"	32	3'2 1/2"					3'2 1/2"
	36					3'6 1/2"	36	3'6 1/2"					3'6 1/2"
	310	2'10 1/8"	5'6 7/8"	8'3 5/8"	11'0 3/8"	3'10 1/2"	38	3'10 1/8"	7'6 7/8"	11'3 5/8"	15'0 3/8"	3'10 1/2"	3'10 1/2"
	42					4'2 1/2"	42	3'10 1/8"					4'2 1/2"
	46					4'6 1/2"	46	3'6 1/2"					4'6 1/2"
	52					5'2 1/2"	52	3'2 1/2"					5'2 1/2"

The above rough openings apply to both mulled units and units of one piece head and sill.

SPECIFICATIONS

GENERAL:

The double hung windows shall be the PORTALUME 900 as manufactured by Porta Aluminum Inc., Old Bethpage, Long Island, New York.

MATERIALS:

The window shall be of 6063 T5 extruded aluminum alloy, having a minimum thickness of .062 inches, subject to commercial tolerances.

CONSTRUCTION:

Frame and sash member joints shall be neatly fitted and permanently tight. All muntin bars (if required) mullions, hardware, and locking devices shall be firmly secured.

WEATHERSTRIP:

Each sash stile shall have a continuous double contact wool pile weatherstrip. Wool pile weatherstrip shall be incorporated in the head, meeting rail and sill.

HARDWARE:

The windows shall be equipped with locks and lifts of suitable non-ferrous or non-magnetic stainless steel materials. Sash shall operate freely and be equipped with counter balancing mechanisms which will hold the sash stationary at any open position. The mechanism used shall be easily accessible. Balances shall be installed in the plant of the manufacturer. Portalume anchors shall be in conformity with the specifications.

FINISH:

The exposed surfaces of all aluminum frames and sash shall be cleaned to make them reasonably uniform in color and free from serious surface blemishes. A protective coating shall be applied before shipment for protection during installation.

GLAZING:

FIELD GLAZING BY OTHERS: All windows shall be glazed from the outside (except Picture Windows, which are glazed from the inside). They shall be back puttied, the glass properly blocked and then face puttied and neatly beveled. Aluminum glazing compounds of #1 commercial grade shall be used. Unless otherwise specified, the Picture Windows glazing beads are set for glass up to 3/16" thick. Aluminum glazing bead for Picture Windows only shall be furnished.

FACTORY GLAZING:

All windows shall be glazed with single strength glass, except where otherwise specified; set with a poly-vinyl glazing strip especially designed for use in connection with the manufacturer's standard construction.

NO FACTORY GLAZING FOR PICTURE WINDOWS.

OPTIONAL:

Fin trim sections of extruded aluminum for attachment to jambs, head and sill are available. Factory will attach such fin on special order. Integral fin available.

Windows are engineered for multiple assembly by interlocking jambs—no mullions required. Factory will assemble multiple units on special order.

SCREENS:

Half and full screens of rolled aluminum sections.

PERFORMANCE:

- A. HORIZONTAL LOAD PERFORMANCE
- B. VERTICAL LOAD PERFORMANCE
- C. UNIFORM LOAD PERFORMANCE
- D. AIR INFILTRATION PERFORMANCE
- E. WATER RESISTANCE PERFORMANCE

All of the above items, A thru E, inclusive, constitute the whole of, and shall be as set forth in the Performance Specification of DH A-1 Double Hung Windows, of the Architectural Aluminum Manufacturers' Association, as if fully set forth herein. Quality Certified seal of said Association will be affixed to each window.

We reserve the right to change detail, designs or specifications at any time without prior notification.

DOUBLE HUNG...SERIES 900 GLASS SCHEDULE

NO.	W x H	W x H	W x H	W x H
1/1	2/2	4/4	6/6	
2032	22" x 16 ³ / ₁₆	22" x 8"	10 ¹⁵ / ₁₆ x 8"	7 ³ / ₁₆ x 8"
2036	22" x 18 ³ / ₁₆	22" x 9"	10 ¹⁵ / ₁₆ x 9"	7 ³ / ₁₆ x 9"
20310	22" x 20 ³ / ₁₆	22" x 10"	10 ¹⁵ / ₁₆ x 10"	7 ³ / ₁₆ x 10"
2042	22" x 22 ³ / ₁₆	22" x 11"	10 ¹⁵ / ₁₆ x 11"	7 ³ / ₁₆ x 11"
2046	22" x 24 ³ / ₁₆	22" x 12"	10 ¹⁵ / ₁₆ x 12"	7 ³ / ₁₆ x 12"
2052	22" x 28 ³ / ₁₆	22" x 14"	10 ¹⁵ / ₁₆ x 14"	7 ³ / ₁₆ x 14"
2432	26" x 16 ³ / ₁₆	26" x 8"	12 ¹⁵ / ₁₆ x 8"	8 ³ / ₁₆ x 8"
2436	26" x 18 ³ / ₁₆	26" x 9"	12 ¹⁵ / ₁₆ x 9"	8 ³ / ₁₆ x 9"
24310	26" x 20 ³ / ₁₆	26" x 10"	12 ¹⁵ / ₁₆ x 10"	8 ³ / ₁₆ x 10"
2442	26" x 22 ³ / ₁₆	26" x 11"	12 ¹⁵ / ₁₆ x 11"	8 ³ / ₁₆ x 11"
2446	26" x 24 ³ / ₁₆	26" x 12"	12 ¹⁵ / ₁₆ x 12"	8 ³ / ₁₆ x 12"
2452	26" x 28 ³ / ₁₆	26" x 14"	12 ¹⁵ / ₁₆ x 14"	8 ³ / ₁₆ x 14"
2832	30" x 16 ³ / ₁₆	30" x 8"	14 ¹⁵ / ₁₆ x 8"	9 ⁷ / ₈ x 8"
2836	30" x 18 ³ / ₁₆	30" x 9"	14 ¹⁵ / ₁₆ x 9"	9 ⁷ / ₈ x 9"
28310	30" x 20 ³ / ₁₆	30" x 10"	14 ¹⁵ / ₁₆ x 10"	9 ⁷ / ₈ x 10"
2842	30" x 22 ³ / ₁₆	30" x 11"	14 ¹⁵ / ₁₆ x 11"	9 ⁷ / ₈ x 11"
2846	30" x 24 ³ / ₁₆	30" x 12"	14 ¹⁵ / ₁₆ x 12"	9 ⁷ / ₈ x 12"
2852	30" x 28 ³ / ₁₆	30" x 14"	14 ¹⁵ / ₁₆ x 14"	9 ⁷ / ₈ x 14"
3032	34" x 16 ³ / ₁₆	34" x 8"	16 ¹⁵ / ₁₆ x 8"	11 ³ / ₁₆ x 8"
3036	34" x 18 ³ / ₁₆	34" x 9"	16 ¹⁵ / ₁₆ x 9"	11 ³ / ₁₆ x 9"
30310	34" x 20 ³ / ₁₆	34" x 10"	16 ¹⁵ / ₁₆ x 10"	11 ³ / ₁₆ x 10"
3042	34" x 22 ³ / ₁₆	34" x 11"	16 ¹⁵ / ₁₆ x 11"	11 ³ / ₁₆ x 11"
3046	34" x 24 ³ / ₁₆	34" x 12"	16 ¹⁵ / ₁₆ x 12"	11 ³ / ₁₆ x 12"
3052	34" x 28 ³ / ₁₆	34" x 14"	16 ¹⁵ / ₁₆ x 14"	11 ³ / ₁₆ x 14"
3432	38" x 16 ³ / ₁₆	38" x 8"	18 ¹⁵ / ₁₆ x 8"	12 ³ / ₁₆ x 8"
3436	38" x 18 ³ / ₁₆	38" x 9"	18 ¹⁵ / ₁₆ x 9"	12 ³ / ₁₆ x 9"
34310	38" x 20 ³ / ₁₆	38" x 10"	18 ¹⁵ / ₁₆ x 10"	12 ³ / ₁₆ x 10"
3442	38" x 22 ³ / ₁₆	38" x 11"	18 ¹⁵ / ₁₆ x 11"	12 ³ / ₁₆ x 11"
3446	38" x 24 ³ / ₁₆	38" x 12"	18 ¹⁵ / ₁₆ x 12"	12 ³ / ₁₆ x 12"
3452	38" x 28 ³ / ₁₆	38" x 14"	18 ¹⁵ / ₁₆ x 14"	12 ³ / ₁₆ x 14"
3832	42" x 16 ³ / ₁₆	42" x 8"	20 ¹⁵ / ₁₆ x 8"	13 ⁷ / ₈ x 8"
3836	42" x 18 ³ / ₁₆	42" x 9"	20 ¹⁵ / ₁₆ x 9"	13 ⁷ / ₈ x 9"
3839	42" x 20 ³ / ₁₆	42" x 10"	20 ¹⁵ / ₁₆ x 10"	13 ⁷ / ₈ x 10"
3842	42" x 22 ³ / ₁₆	42" x 11"	20 ¹⁵ / ₁₆ x 11"	13 ⁷ / ₈ x 11"
3846	42" x 24 ³ / ₁₆	42" x 12"	20 ¹⁵ / ₁₆ x 12"	13 ⁷ / ₈ x 12"
3852	42" x 28 ³ / ₁₆	42" x 14"	20 ¹⁵ / ₁₆ x 14"	13 ⁷ / ₈ x 14"

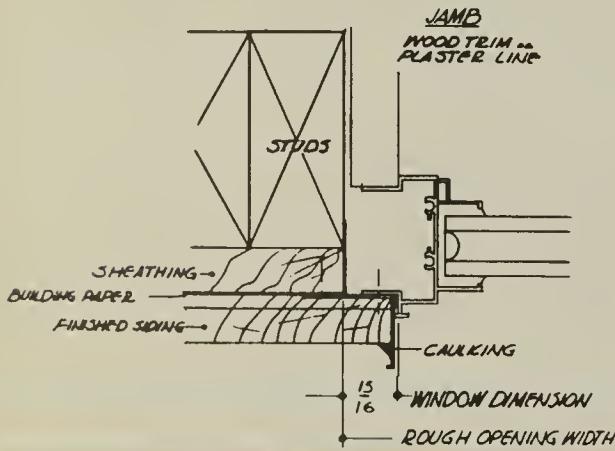
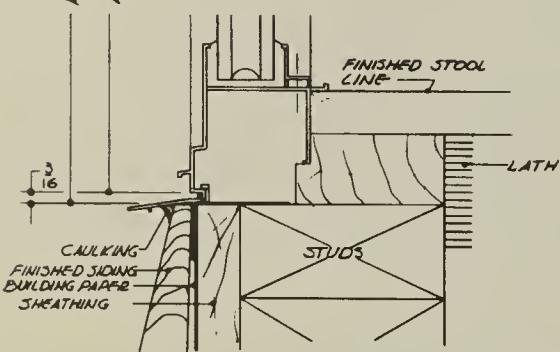
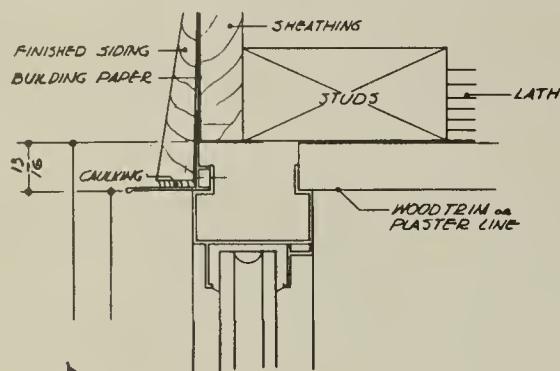
Gloss sizes are for guidance only and should be verified in the field. For glass sizes of other muntin arrangements, inquire.

ALUMINUM DOUBLE HUNG WINDOWS..

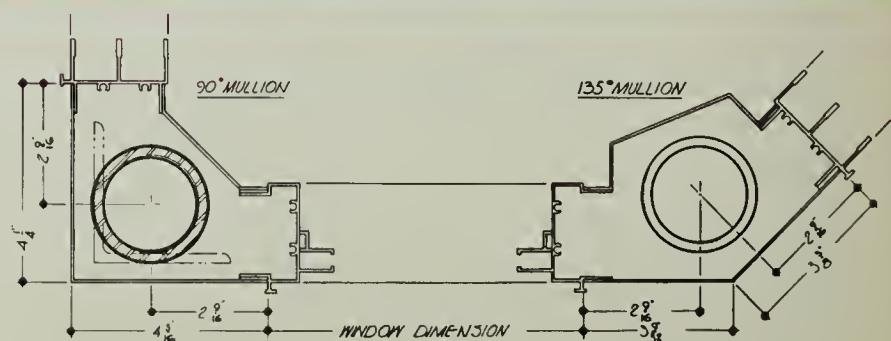
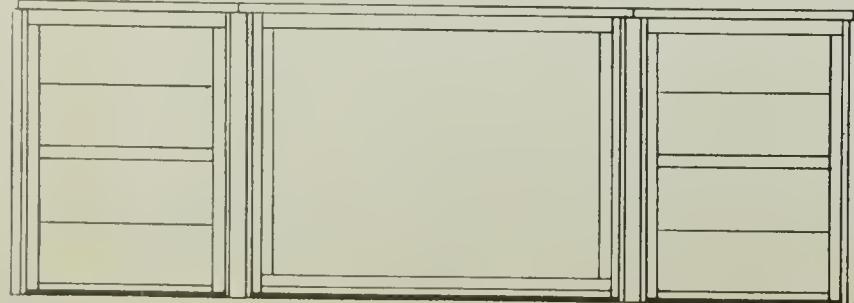
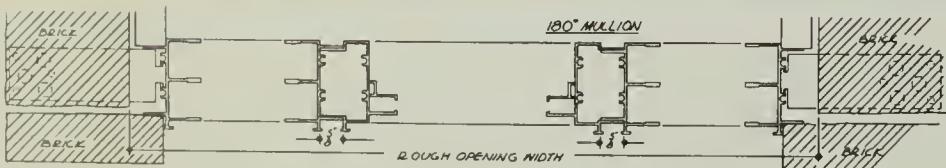
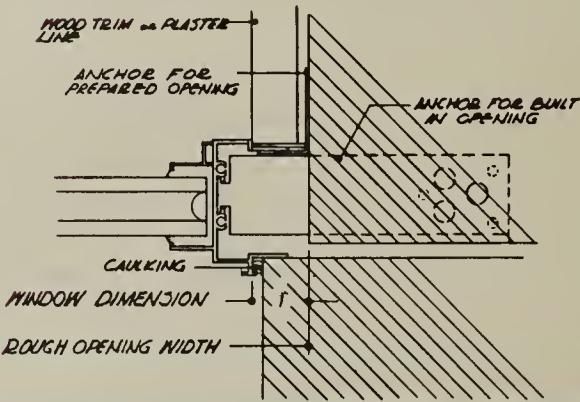
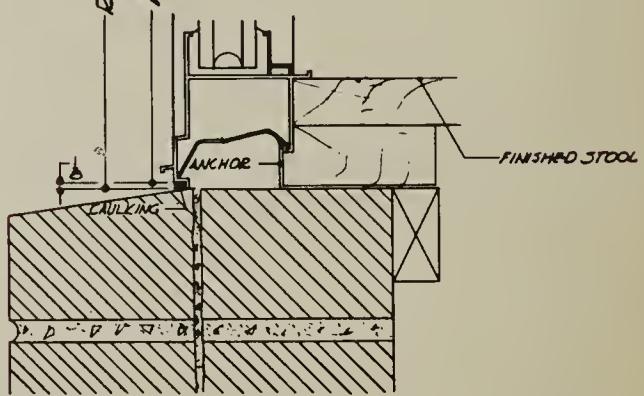
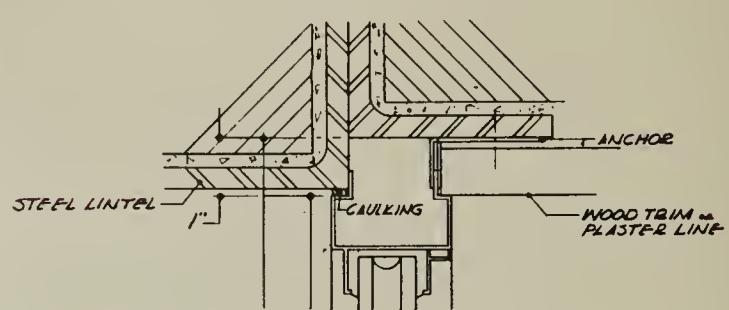
PICTURE

INSTALLATION DETAILS

FRAME OR BRICK VENEER CONSTRUCTION WITH FIN TRIM



SOLID BRICK OR CONCRETE BLOCK CONSTRUCTION



NOTE: PORTALUME Series 900 Picture Windows with Double Hung Windows will be furnished with one-piece head and sill unless otherwise ordered.

...SERIES 900

WINDOWS

portalume®

TYPES AND SIZES

		WIDTH						
WD*		3'0 $\frac{1}{8}$ "	3'6 $\frac{1}{8}$ "	4'0 $\frac{1}{8}$ "	4'6 $\frac{1}{8}$ "	5'0 $\frac{1}{8}$ "	5'6 $\frac{1}{8}$ "	6'0 $\frac{1}{8}$ "
HEIGHT	3'1 $\frac{3}{8}$ "							
	3032	3632	4032	4632	5032	5632	6032	
	30310	36310	40310	46310	50310	56310	60310	
	3042	3642	4042	4642	5042	5642	6042	
	3046	3646	4046	4646	5046	5646	6046	
	3052	3652	4052	4652	5052	5652	6052	

*Window Dimension

The picture windows shown here are for use with PORTALUME Series 900 Double Hung windows. They are designed and engineered to receive S.S.G., D.S.G., 3/16", 7/32", 1/4", and 1/2", 5/8", 1" insulating glass. Glass dimensions are shown on the chart below. Picture windows are available knocked down. NOTE: For mulled combination windows deduct 1 1/4" from width of glass for picture window. Rough openings remain the same.

DOUBLE HUNG
WINDOWS

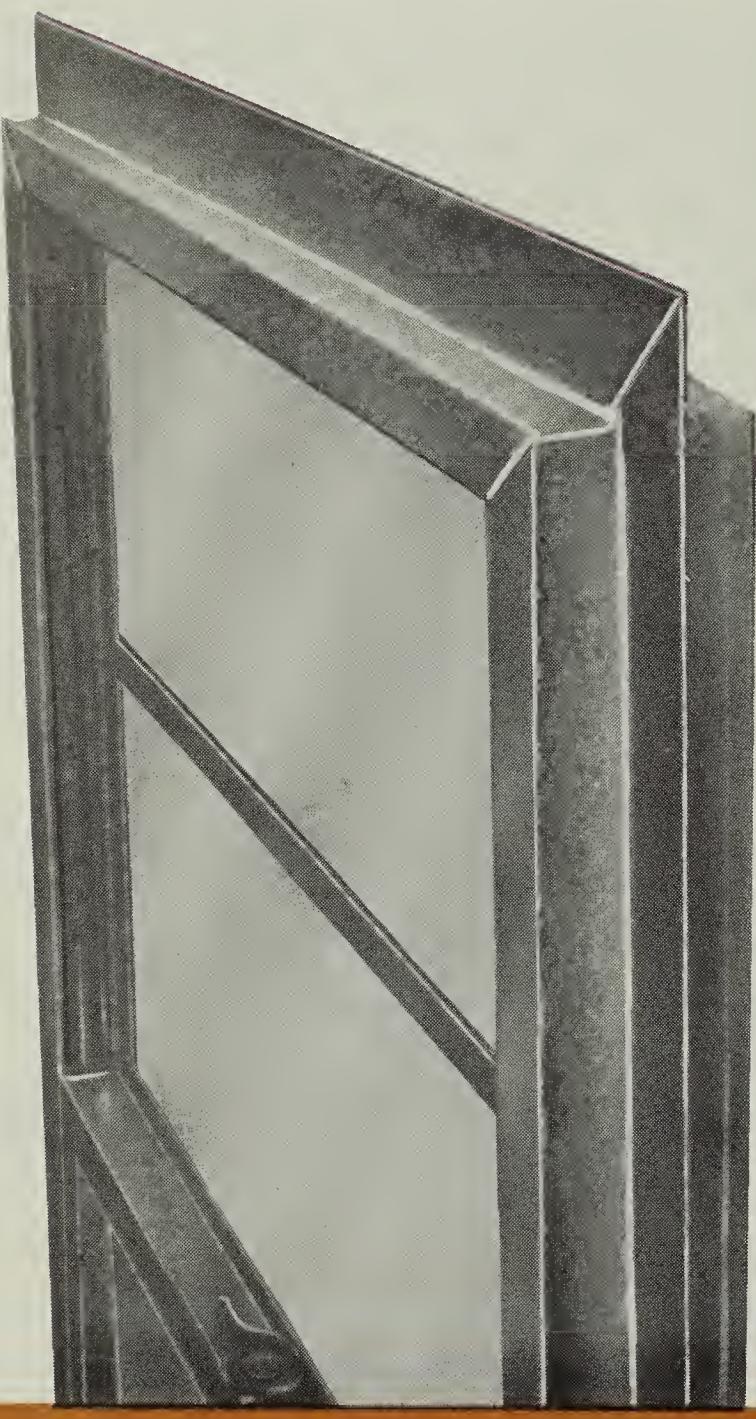
PICTURE WINDOW - SERIES #900 - ROUGH OPENINGS - WITH & WITHOUT FIN FOR MULLED WINDOWS ONLY

NOM. SIZE WIDTH	HEIGHT	SINGLE P. W. ONLY R. D. WIDTH	PICTURE WINDOW INCLUDING D. H. EACH SIDE						SINGLE WINDWW R. D. HEIGHT	GLASS SIZE 3/16 7/32 1/4
			2'2 $\frac{1}{2}$ "	2'2 $\frac{3}{4}$ "	2'2 $\frac{7}{8}$ "	2'3 $\frac{1}{2}$ "	2'3 $\frac{3}{4}$ "	2'3 $\frac{7}{8}$ "		
30	32								3'2 $\frac{1}{2}$ "	35 $\frac{1}{8}$ x 34 $\frac{1}{8}$
	310	3'2 $\frac{1}{2}$ "	7'3 $\frac{3}{8}$ "	7'11 $\frac{1}{8}$ "	8'7 $\frac{1}{8}$ "	9'3 $\frac{5}{8}$ "	9'11 $\frac{1}{8}$ "	10'7 $\frac{1}{8}$ "	3'10 $\frac{1}{2}$ "	35 $\frac{1}{8}$ x 42 $\frac{1}{8}$
	42								4'2 $\frac{1}{2}$ "	35 $\frac{1}{8}$ x 46 $\frac{1}{8}$
	46								4'6 $\frac{1}{2}$ "	35 $\frac{1}{8}$ x 50 $\frac{1}{8}$
	52								5'2 $\frac{1}{2}$ "	35 $\frac{1}{8}$ x 58 $\frac{1}{8}$
36	32								3'2 $\frac{1}{2}$ "	41 $\frac{1}{8}$ x 34 $\frac{1}{8}$
	310								3'10 $\frac{1}{2}$ "	41 $\frac{1}{8}$ x 42 $\frac{1}{8}$
	42	3'8 $\frac{1}{2}$ "	7'9 $\frac{3}{8}$ "	8'5 $\frac{1}{8}$ "	9'1 $\frac{1}{8}$ "	9'9 $\frac{5}{8}$ "	10'5 $\frac{1}{8}$ "	11'1 $\frac{5}{8}$ "	4'2 $\frac{1}{2}$ "	41 $\frac{1}{8}$ x 46 $\frac{1}{8}$
	46								4'6 $\frac{1}{2}$ "	41 $\frac{1}{8}$ x 50 $\frac{1}{8}$
	52								5'2 $\frac{1}{2}$ "	41 $\frac{1}{8}$ x 58 $\frac{1}{8}$
40	32								3'2 $\frac{1}{2}$ "	47 $\frac{1}{8}$ x 34 $\frac{1}{8}$
	310								3'10 $\frac{1}{2}$ "	47 $\frac{1}{8}$ x 42 $\frac{1}{8}$
	42	4'2 $\frac{1}{2}$ "	8'3 $\frac{3}{8}$ "	8'11 $\frac{1}{8}$ "	9'7 $\frac{1}{8}$ "	10'3 $\frac{5}{8}$ "	10'11 $\frac{1}{8}$ "	11'7 $\frac{1}{8}$ "	4'2 $\frac{1}{2}$ "	47 $\frac{1}{8}$ x 46 $\frac{1}{8}$
	46								4'6 $\frac{1}{2}$ "	47 $\frac{1}{8}$ x 50 $\frac{1}{8}$
	52								5'2 $\frac{1}{2}$ "	47 $\frac{1}{8}$ x 58 $\frac{1}{8}$
46	32								3'2 $\frac{1}{2}$ "	53 $\frac{1}{8}$ x 34 $\frac{1}{8}$
	310								3'10 $\frac{1}{2}$ "	53 $\frac{1}{8}$ x 42 $\frac{1}{8}$
	42	4'8 $\frac{1}{2}$ "	8'9 $\frac{3}{8}$ "	9'5 $\frac{1}{8}$ "	10'1 $\frac{1}{8}$ "	10'9 $\frac{5}{8}$ "	11'5 $\frac{1}{8}$ "	12'1 $\frac{5}{8}$ "	4'2 $\frac{1}{2}$ "	53 $\frac{1}{8}$ x 46 $\frac{1}{8}$
	46								4'6 $\frac{1}{2}$ "	53 $\frac{1}{8}$ x 50 $\frac{1}{8}$
	52								5'2 $\frac{1}{2}$ "	53 $\frac{1}{8}$ x 58 $\frac{1}{8}$
50	32								3'2 $\frac{1}{2}$ "	59 $\frac{1}{8}$ x 34 $\frac{1}{8}$
	310								3'10 $\frac{1}{2}$ "	59 $\frac{1}{8}$ x 42 $\frac{1}{8}$
	42	5'2 $\frac{1}{2}$ "	9'3 $\frac{5}{8}$ "	9'11 $\frac{1}{8}$ "	10'7 $\frac{1}{8}$ "	11'3 $\frac{5}{8}$ "	11'11 $\frac{1}{8}$ "	12'7 $\frac{1}{8}$ "	4'2 $\frac{1}{2}$ "	59 $\frac{1}{8}$ x 46 $\frac{1}{8}$
	46								4'6 $\frac{1}{2}$ "	59 $\frac{1}{8}$ x 50 $\frac{1}{8}$
	52								5'2 $\frac{1}{2}$ "	59 $\frac{1}{8}$ x 58 $\frac{1}{8}$
56	32								3'2 $\frac{1}{2}$ "	65 $\frac{1}{8}$ x 34 $\frac{1}{8}$
	310								3'10 $\frac{1}{2}$ "	65 $\frac{1}{8}$ x 42 $\frac{1}{8}$
	42	5'8 $\frac{1}{2}$ "	9'9 $\frac{3}{8}$ "	10'5 $\frac{1}{8}$ "	11'1 $\frac{1}{8}$ "	11'9 $\frac{5}{8}$ "	12'5 $\frac{1}{8}$ "	13'1 $\frac{5}{8}$ "	4'2 $\frac{1}{2}$ "	65 $\frac{1}{8}$ x 46 $\frac{1}{8}$
	46								4'6 $\frac{1}{2}$ "	65 $\frac{1}{8}$ x 50 $\frac{1}{8}$
	52								5'2 $\frac{1}{2}$ "	65 $\frac{1}{8}$ x 58 $\frac{1}{8}$
60	32								3'2 $\frac{1}{2}$ "	71 $\frac{1}{8}$ x 34 $\frac{1}{8}$
	310								3'10 $\frac{1}{2}$ "	71 $\frac{1}{8}$ x 42 $\frac{1}{8}$
	42	6'2 $\frac{1}{2}$ "	10'3 $\frac{3}{8}$ "	10'11 $\frac{1}{8}$ "	11'7 $\frac{1}{8}$ "	12'3 $\frac{5}{8}$ "	12'11 $\frac{1}{8}$ "	13'7 $\frac{1}{8}$ "	4'2 $\frac{1}{2}$ "	71 $\frac{1}{8}$ x 46 $\frac{1}{8}$
	46								4'6 $\frac{1}{2}$ "	71 $\frac{1}{8}$ x 50 $\frac{1}{8}$
	52								5'2 $\frac{1}{2}$ "	71 $\frac{1}{8}$ x 58 $\frac{1}{8}$

Glazing bead for P.W. set for 3/16" unless otherwise specified.
Glass sizes are for guidance only and should be verified in the field. For glass sizes of other muntin arrangements, inquire.

ALUMINUM DOUBLE HUNG WINDOWS...

INTEGRAL FIN—WELDED FRAME



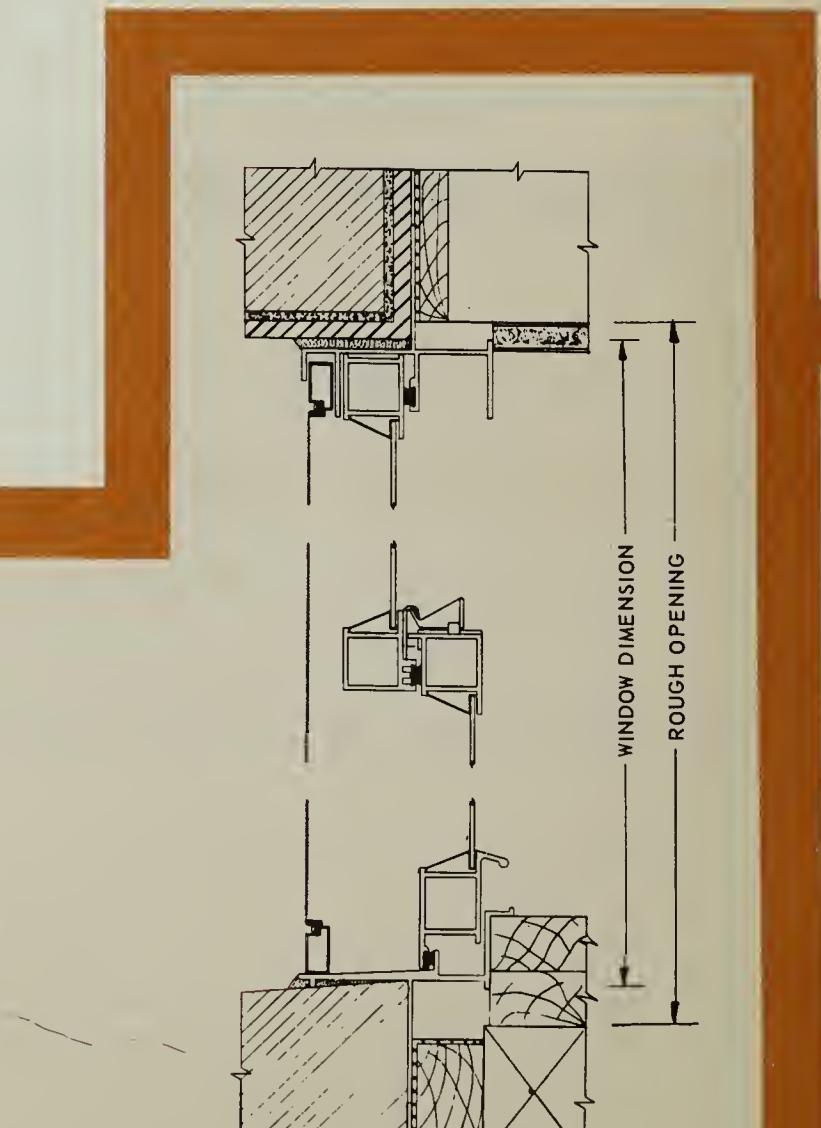
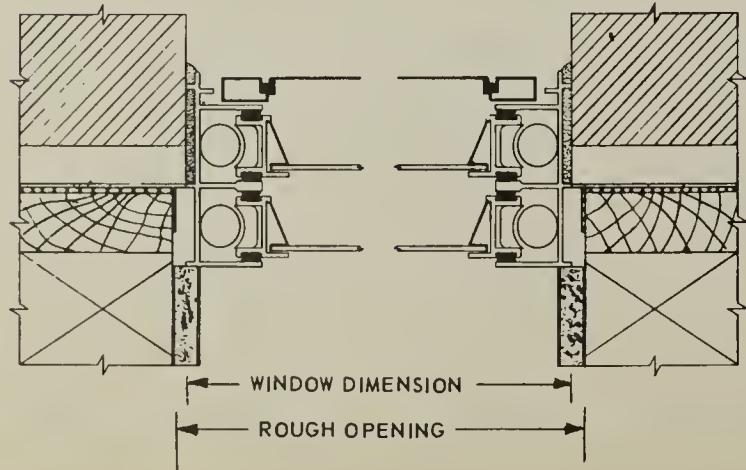
DOUBLE HUNG
WINDOWS

A SPECIAL PORTALUME
ENGINEERED INNOVATION

HELIARC WELDED FRAME WITH
EXTRA LARGE INTEGRAL FIN

NOTE! FOR OTHER FEATURES
SEE SERIES 900 ON PAGE 12.

INSTALLATION DETAILS



INTEGRAL FIN—WELDED FRAME

INTEGRAL FIN & TRIM
ONE PIECE HEAD & SILL
DOUBLE HUNG WINDOWS — SERIES 900 INTEGRAL
ROUGH OPENINGS*

INTEGRAL FIN & TRIM
ONE PIECE HEAD & SILL
DOUBLE HUNG & PICTURE WINDOW UNITS SERIES 900
ROUGH OPENINGS*

DOUBLE HUNG
WINDOWS

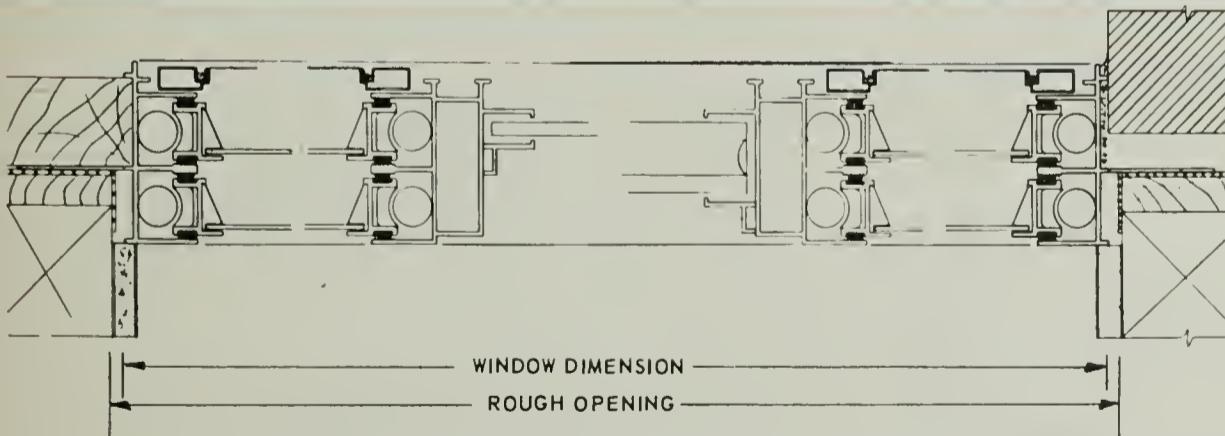
NOMINAL SIZES	WIDTH	HEIGHT	WIDTHS				HEIGHT
			SINGLE	DOUBLE	TRIPLE	QUADRUPEL	
	31						3'1 $\frac{1}{4}$ "
	35						3'5 $\frac{1}{4}$ "
	39						3'9 $\frac{1}{4}$ "
20	41	2'0 $\frac{3}{4}$ "	4'1 $\frac{1}{2}$ "	6'2 $\frac{1}{4}$ "		8'3"	4'1 $\frac{1}{2}$ "
	45						4'5 $\frac{1}{4}$ "
	51						5'1 $\frac{1}{4}$ "
							31
	31						35
	35						41
	39						45
24	41	2'4 $\frac{3}{4}$ "	4'9 $\frac{1}{2}$ "	7'2 $\frac{1}{4}$ "		9'7"	51
	45						31
	51						35
							39
	31						41
	35						45
	39						51
28	41	2'8 $\frac{3}{4}$ "	5'5 $\frac{1}{2}$ "	8'2 $\frac{1}{4}$ "		10'11"	31
	45						35
	51						39
							41
	31						45
	35						51
30	39	3'0 $\frac{3}{4}$ "	6'1 $\frac{1}{2}$ "	9'2 $\frac{1}{4}$ "		12'3"	31
	41						35
	45						39
	51						43
							47
34	31	3'4 $\frac{3}{4}$ "	6'9 $\frac{1}{2}$ "	10'2 $\frac{1}{4}$ "		13'7"	31
	35						35
	39						39
	41						43
	45						47
	51						51
38	31	3'8 $\frac{3}{4}$ "	7'5 $\frac{1}{2}$ "	11'2 $\frac{1}{4}$ "		14'11"	31
	35						35
	39						39
	41						43
	45						47
	51						51

* For D.H. window glass sizes see page 15

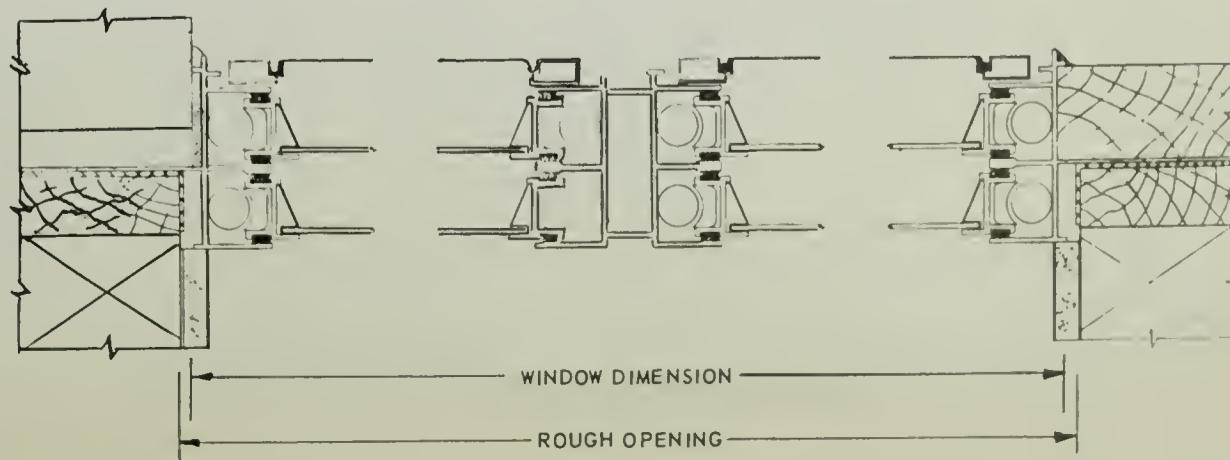
These rough openings paralleling general field practice) allow for $\frac{3}{8}$ " sheetrock butted to frame and $\frac{7}{8}$ " stool butted to frame, plus $\frac{3}{8}$ " space for tolerance in width and height.

Glass sizes are for guidance only and should be verified in the field.
For glass sizes of other muntin arrangements, inquire.

NOMINAL SIZE	WIDTH	HEIGHT	PICTURE WINDOW INCLUDING D. H. EACH SIDE						SINGLE WINDOW R.O. HEIGHT	GLASS SIZE 3/16 7/32 1/4	
			2'2 $\frac{1}{2}$ "	2'2 $\frac{3}{4}$ "	2'2 $\frac{5}{8}$ "	2'3 $\frac{1}{4}$ "	2'3 $\frac{3}{4}$ "	2'3 $\frac{7}{8}$ "			
31	35	39	30	39	41	7'2 $\frac{1}{4}$ "	7'10 $\frac{1}{4}$ "	8'6 $\frac{3}{4}$ "	9'2 $\frac{1}{4}$ "	9'10 $\frac{1}{4}$ "	10'6 $\frac{1}{4}$ "
41	45	51									
45	51										
51											
31	35	39	36	39	41	7'8 $\frac{3}{4}$ "	8'4 $\frac{1}{4}$ "	9'0 $\frac{1}{4}$ "	9'8 $\frac{3}{4}$ "	10'4 $\frac{1}{4}$ "	11'0 $\frac{1}{4}$ "
41	45	51									
45	51										
51											
31	35	39	40	39	41	8'2 $\frac{1}{4}$ "	8'10 $\frac{1}{4}$ "	9'6 $\frac{1}{4}$ "	10'2 $\frac{1}{4}$ "	10'10 $\frac{1}{4}$ "	11'6 $\frac{1}{4}$ "
41	45	51									
45	51										
51											
31	35	39	46	39	41	8'8 $\frac{3}{4}$ "	9'4 $\frac{1}{4}$ "	10'0 $\frac{1}{4}$ "	10'8 $\frac{3}{4}$ "	11'4 $\frac{1}{4}$ "	12'0 $\frac{1}{4}$ "
41	45	51									
45	51										
51											
31	35	39	50	39	41	9'2 $\frac{1}{4}$ "	9'10 $\frac{1}{4}$ "	10'6 $\frac{1}{4}$ "	11'2 $\frac{1}{4}$ "	11'10 $\frac{1}{4}$ "	12'6 $\frac{1}{4}$ "
41	45	51									
45	51										
51											
31	35	39	56	39	41	9'8 $\frac{3}{4}$ "	10'4 $\frac{1}{4}$ "	11'0 $\frac{1}{4}$ "	11'8 $\frac{3}{4}$ "	12'4 $\frac{1}{4}$ "	13'0 $\frac{1}{4}$ "
41	45	51									
45	51										
51											
31	35	39	60	39	41	10'2 $\frac{1}{4}$ "	10'10 $\frac{1}{4}$ "	11'6 $\frac{1}{4}$ "	12'2 $\frac{1}{4}$ "	12'10 $\frac{1}{4}$ "	13'6 $\frac{1}{4}$ "
41	45	51									
45	51										
51											

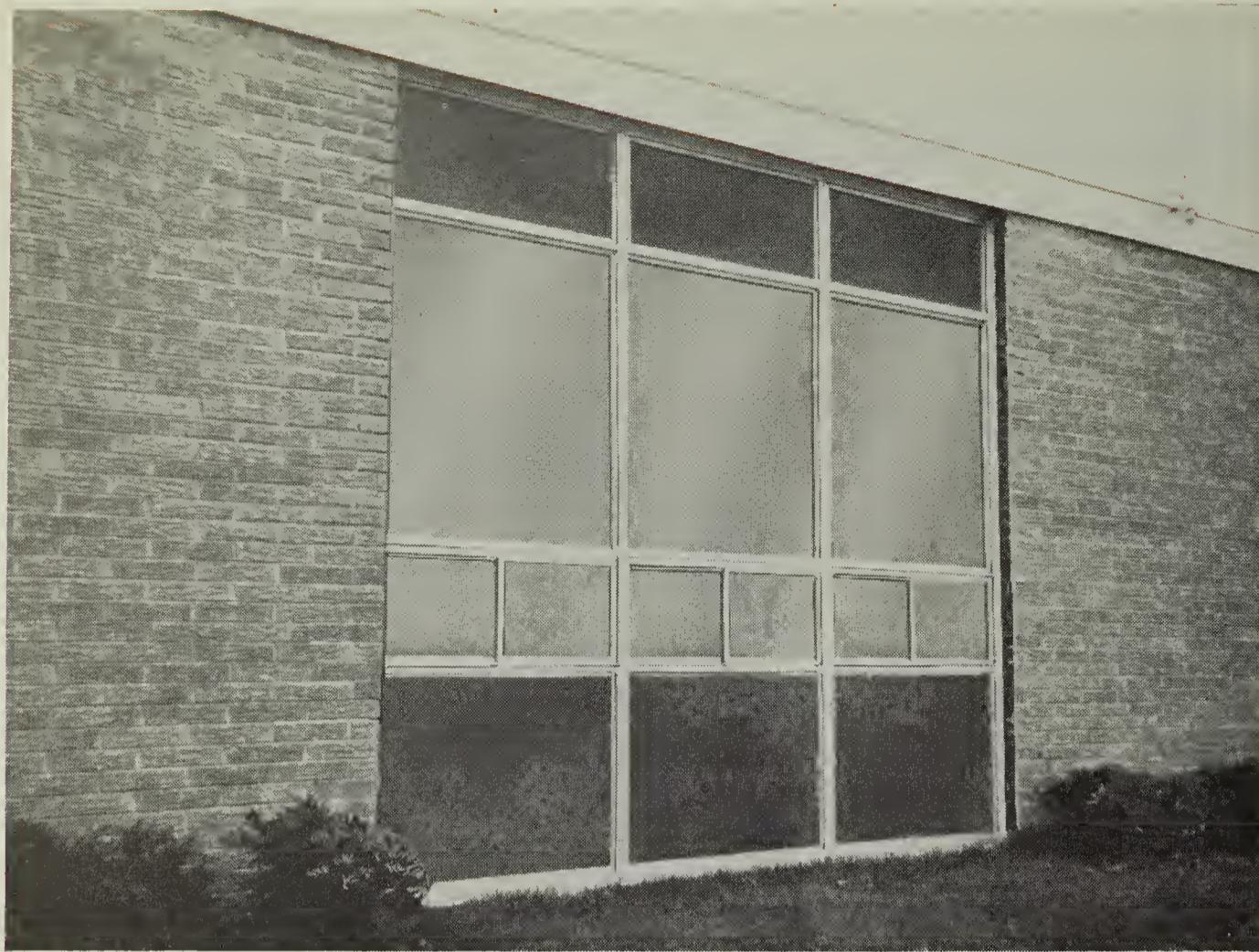


FACTORY FABRICATED MULTIPLES AND PICTURE WINDOW COMBINATIONS WITH CONTINUOUS HEAD & SILL ARE RECOMMENDED. COMBINATIONS CAN ALSO BE MADE WITH THE USE OF MULLIONS.



ALUMINUM DOUBLE HUNG WINDOWS.....SERIES 900

KWIKWALL



SERIES 900
KWIKWALL®

FOR SPECIFICATIONS
SEE PAGE 15
SERIES 900
DOUBLE HUNG
WINDOWS

FEATURES

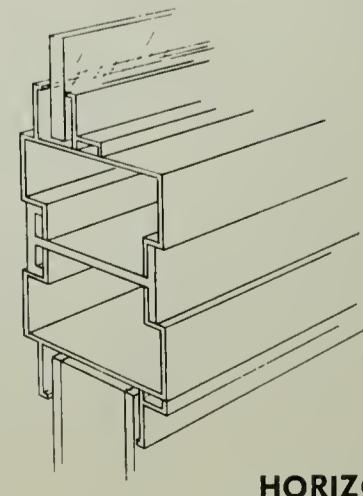
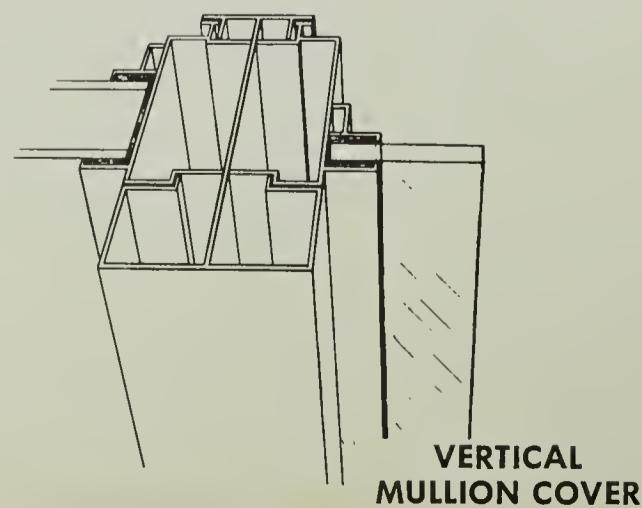
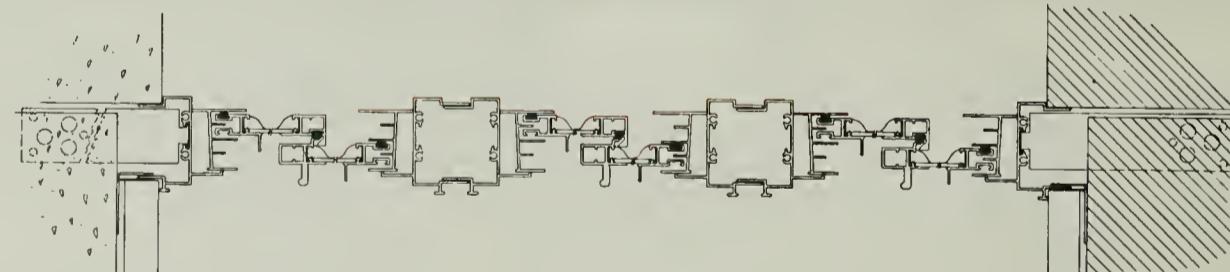
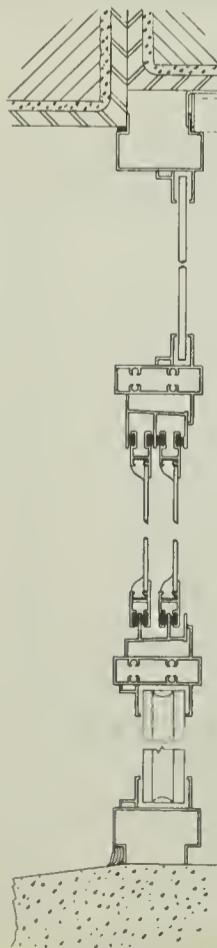
Available in multiples of 3' and 4' wide interlocking sections to create a continuous wall. Variations of height elevations to suit design requirements.

Can be ordered for glazing in various thicknesses, up to and including 1" insulating glass, Extruded aluminum glazing bead.

Colored panels up to 1 $\frac{1}{8}$ " thickness can be used in lieu of glass. Engineered to accommodate many types of operating windows and for all types of construction.

Available with anchors or attached fin trim.

INSTALLATION DETAILS



WITH REMOVABLE SASH.....SERIES 800

FEATURES

Large pre-punched integral fin for various types of installation. Nylon glides to insure free, easy and quiet operation of sash. Accentuated pitch of sill for rapid water runoff.

Adjustable balances are aluminum tube covered, spring compensated and spiral balanced to provide easy lifting and to hold sash at any opening level.

Can accommodate liners.

Various muntin arrangements.

Bottom sash removable for easy cleaning.

Deep interlocking meeting rail with wool pile weatherstripping and cam lock.

Wool pile weatherstripping around perimeter of sash provides silent, efficient, long lasting protection against the elements. The use of wool pile eliminates metal-to-metal contact, thus avoiding the prime cause of binding.

Mullions available for combination units.

Snap-in glazing bead.

Storm panel and screen available.

SPECIAL FEATURE: CONTINUOUS HEAD & SILL AVAILABLE IN COMBINATIONS

SPECIFICATIONS

GENERAL: The Single Hung Windows shall be the PORTALUME 800 as manufactured by Porta Aluminum Inc., Old Bethpage, Long Island, New York.

MATERIALS: The window shall be 6063 T5 extruded aluminum alloy, having a minimum thickness of .062 inches, subject to commercial tolerances.

CONSTRUCTION: Frame and Sash member joints shall be neatly fitted and permanently tight. All muntin bars (if required), mullions, hardware, and locking devices shall be firmly secured.

WEATHERSTRIP: Each stile of the moving sash shall have a continuous contact wool pile weatherstrip. Wool pile weatherstrip shall be incorporated in the meeting rail and sill.

FIN TRIM: The jamb, head and sill of all windows shall be of the integral fin trim type, of extruded aluminum.

HARDWARE: The windows shall be equipped with locks and lifts of suitable non-ferrous or non-magnetic stainless steel materials. Sash shall operate freely and be equipped with counter balancing mechanism which will hold the sash stationary at any open position. The mechanism used shall be easily accessible. Balances shall be installed in the plant of the manufacturer. The operating sash shall be removable.

FINISH: The exposed surfaces of all aluminum frames and sash shall be cleaned to make them reasonably uniform in color and free from serious surface blemishes. A protective coating shall be applied before shipment for protection during installation.

GLAZING: FACTORY GLAZING: All windows shall be glazed with single strength glass, except where otherwise specified, set with a snap-in glazing bead especially designed for use in connection with the manufacturer's standard construction. NO FACTORY GLAZING FOR PICTURE WINDOWS, EXCEPT BY PRE-ARRANGEMENT WITH MANUFACTURER.

GLAZING BY OTHERS: Glazing shall be accomplished in accordance with detail drawing, and shall conform to manufacturer's specifications.

SCREENS and STORM PANELS:

Suitable screens and storm panels shall be available.

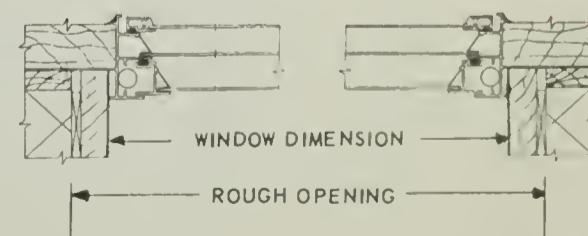
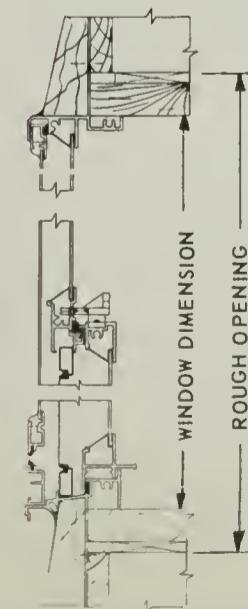
PERFORMANCE:

- A. HORIZONTAL LOAD PERFORMANCE
- B. VERTICAL LOAD PERFORMANCE
- C. UNIFORM LOAD PERFORMANCE
- D. AIR INFILTRATION PERFORMANCE
- E. WATER RESISTANCE PERFORMANCE

All of the above items, A thru E, inclusive, constitute the whole of, and shall be as set forth in the Performance Specification of DH A-1 Double Hung (and Single Hung) Windows, of the Architectural Aluminum Manufacturers' Association, as if fully set forth herein. Quality Certified seal of said Association will be affixed to each window.

We reserve the right to change detail, designs or specifications at any time without prior notification.

INSTALLATION DETAILS



ALUMINUM SINGLE HUNG WINDOWS WITH

DIMENSION AREA AND SIZE DATA

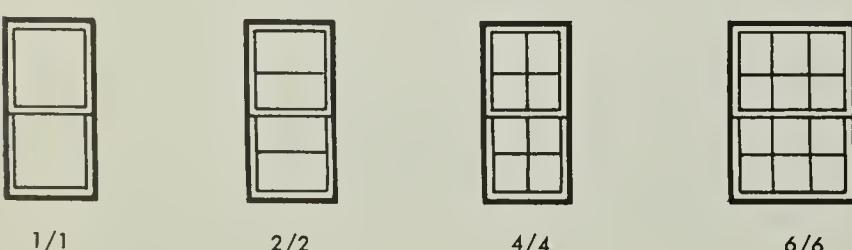
TYPES AND SIZES

WD*	1'11 $\frac{1}{16}$ "	2'3 $\frac{1}{16}$ "	2'7 $\frac{1}{16}$ "	2'11 $\frac{1}{16}$ "	3'3 $\frac{1}{16}$ "	3'7 $\frac{1}{16}$ "
3'0"						
	2030	2430	2830	3030	3430	3830
3'4"						
	2034	2434	2834	3034	3434	3834
3'8"						
	2038	2438	2838	3038	3438	3838
4'0"						
	2040	2440	2840	3040	3440	3840
4'4"						
	2044	2444	2844	3044	3444	3844
5'0"						
	2050	2450	2850	3050	3450	3850

SIZES SHOWN ARE WINDOW DIMENSIONS. FOR ROUGH OPENINGS—
SEE CHARTS.

Unless otherwise specified PORTALUME
Single Hung Windows, Series 800, will
be supplied 2/2 as in above diagram.

*Window Dimension



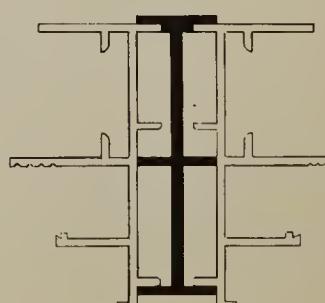
When specifying muntin variations other than 2/2, (which will be supplied if you do not specify otherwise), show the size of the windows followed by the muntin variation desired according to the chart above (e.g. 3040-6/6).

SINGLE HUNG — SERIES 800 GLASS SIZES FOR 2/2 ONLY

NOMINAL SIZES WIDTH	HEIGHT	STATIONARY		OPERATING	
		WIDTH	HEIGHT	WIDTH	HEIGHT
20	30		8"		8"
	34		9"		9"
	38	22"	10"	21"	10"
	40		11"		11"
	44		12"		12"
	50		14"		14"
24	30		8"		8"
	34		9"		9"
	38	26"	10"	25"	10"
	40		11"		11"
	44		12"		12"
	50		14"		14"
28	30		8"		8"
	34		9"		9"
	38	30"	10"	29"	10"
	40		11"		11"
	44		12"		12"
	50		14"		14"
30	30		8"		8"
	34		9"		9"
	38	34"	10"	33"	10"
	40		11"		11"
	44		12"		12"
	50		14"		14"
34	30		8"		8"
	34		9"		9"
	38	38"	10"	37"	10"
	40		11"		11"
	44		12"		12"
	50		14"		14"
38	30		8"		8"
	34		9"		9"
	38	42"	10"	41"	10"
	40		11"		11"
	44		12"		12"
	50		14"		14"

Gloss sizes are for guidance only and should be verified in the field.
For glass sizes of other arrangements, inquire.

TYPICAL VERTICAL MULLION FOR MULTIPLE WINDOWS



A PORTALUME EXCLUSIVE FEATURE

CONTINUOUS HEAD & SILL

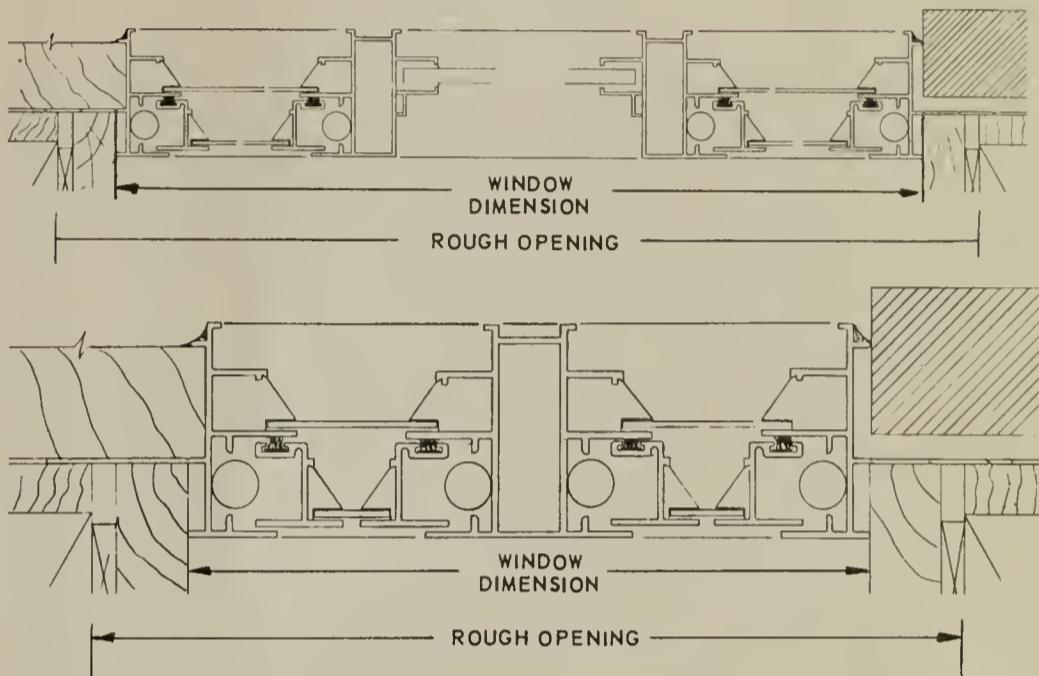
Portalume Single Hung is so engineered, that multiples and picture window combinations are made with continuous head and sill.

Stability, strength and rigidity which are inherent in continuous head and sill units, are thus available in this economical method of fenestration.

Available factory fabricated only.

Interlocked mulled units to be assembled in the field also available.

Same rough openings for both types.



SINGLE HUNG - SERIES 800
SINGLE AND MULLED WINDOWS
ROUGH OPENINGS FOR 13/16 TRIM

{ FOR 3/8 SHEETROCK DEDUCT 7/8" FROM R. O. WIDTH
FOR 1/2 SHEETROCK DEDUCT 3/8 FROM R. O. WIDTH

NOMINAL SIZES	WIDTHS				REVISED			
	WIDTH	HEIGHT	SINGLE	DOUBLE	TRIPLE	QUADRUPLE	HEIGHT	
30								
34								
20	2'11 ¹³ / ₁₆ "		4'1 ¹ / ₈ "		6'1 ¹³ / ₁₆ "		8'2"	
38								
40								
44								
50								
30								
34								
38								
40	2'5 ¹³ / ₁₆ "		4'9 ⁷ / ₈ "		7'1 ¹³ / ₁₆ "		9'6"	
44								
50								
30								
34								
38								
40	2'9 ¹³ / ₁₆ "		5'5 ⁷ / ₈ "		8'1 ¹³ / ₁₆ "		10'10"	
44								
50								
30								
34								
38								
40	3'1 ¹³ / ₁₆ "		6'1 ⁷ / ₈ "		9'1 ¹³ / ₁₆ "		12'2"	
44								
50								
30								
34								
38								
40	3'5 ¹³ / ₁₆ "		6'9 ⁷ / ₈ "		10'1 ¹³ / ₁₆ "		13'6"	
44								
50								
30								
34								
38								
40	3'9 ¹³ / ₁₆ "		7'5 ⁷ / ₈ "		11'1 ¹³ / ₁₆ "		14'10"	
44								
50								

SINGLE HUNG - SERIES 800
MULLED SINGLE HUNG & PICTURE WINDOWS
ROUGH OPENINGS

NOMINAL SIZES	PICTURE WINDOW INCLUDING S. H. EACH SIDE						SINGLE WINDOW R.O. HEIGHT	GLASS SIZE
	2'2"0"	2'2"4"	2'2"8"	2'3"0"	2'3"4"	2'3"8"		
30							3' 2"	35" x 34 ¹ / ₂ "
34							3' 6"	35" x 38 ¹ / ₂ "
38		7'1 ¹³ / ₁₆ "	7'9 ¹³ / ₁₆ "	8'5 ¹³ / ₁₆ "	9'1 ¹³ / ₁₆ "	9'9 ¹³ / ₁₆ "	3'10"	35" x 42 ¹ / ₂ "
40							4' 2"	35" x 46 ¹ / ₂ "
44							4' 6"	35" x 50 ¹ / ₂ "
50							5' 2"	35" x 58 ¹ / ₂ "
30							3' 2"	41" x 34 ¹ / ₂ "
34							3' 6"	41" x 38 ¹ / ₂ "
38		7'7 ¹³ / ₁₆ "	8'3 ¹³ / ₁₆ "	8'11 ¹³ / ₁₆ "	9'7 ¹³ / ₁₆ "	10'3 ¹³ / ₁₆ "	3'10"	41" x 42 ¹ / ₂ "
40							4' 2"	41" x 46 ¹ / ₂ "
44							4' 6"	41" x 50 ¹ / ₂ "
50							5' 2"	41" x 58 ¹ / ₂ "
30							3' 2"	47" x 34 ¹ / ₂ "
34							3' 6"	47" x 38 ¹ / ₂ "
38		8'1 ¹³ / ₁₆ "	8'9 ¹³ / ₁₆ "	9'5 ¹³ / ₁₆ "	10'1 ¹³ / ₁₆ "	10'9 ¹³ / ₁₆ "	3'10"	47" x 42 ¹ / ₂ "
40							4' 2"	47" x 46 ¹ / ₂ "
44							4' 6"	47" x 50 ¹ / ₂ "
50							5' 2"	47" x 58 ¹ / ₂ "
30							3' 2"	53" x 34 ¹ / ₂ "
34							3' 6"	53" x 38 ¹ / ₂ "
38							3'10"	53" x 42 ¹ / ₂ "
40							4' 2"	53" x 46 ¹ / ₂ "
44							4' 6"	53" x 50 ¹ / ₂ "
50							5' 2"	53" x 58 ¹ / ₂ "
30							3' 2"	59" x 34 ¹ / ₂ "
34							3' 6"	59" x 38 ¹ / ₂ "
38							3'10"	59" x 42 ¹ / ₂ "
40							4' 2"	59" x 46 ¹ / ₂ "
44							4' 6"	59" x 50 ¹ / ₂ "
50							5' 2"	59" x 58 ¹ / ₂ "
30							3' 2"	65" x 34 ¹ / ₂ "
34							3' 6"	65" x 38 ¹ / ₂ "
38							3'10"	65" x 42 ¹ / ₂ "
40							4' 2"	65" x 46 ¹ / ₂ "
44							4' 6"	65" x 50 ¹ / ₂ "
50							5' 2"	65" x 58 ¹ / ₂ "
30							3' 2"	71" x 34 ¹ / ₂ "
34							3' 6"	71" x 38 ¹ / ₂ "
38							3'10"	71" x 42 ¹ / ₂ "
40							4' 2"	71" x 46 ¹ / ₂ "
44							4' 6"	71" x 50 ¹ / ₂ "
50							5' 2"	71" x 58 ¹ / ₂ "
30							3' 2"	71" x 34 ¹ / ₂ "
34							3' 6"	71" x 38 ¹ / ₂ "
38							3'10"	71" x 42 ¹ / ₂ "
40							4' 2"	71" x 46 ¹ / ₂ "
44							4' 6"	71" x 50 ¹ / ₂ "
50							5' 2"	71" x 58 ¹ / ₂ "
30							3' 2"	71" x 34 ¹ / ₂ "
34							3' 6"	71" x 38 ¹ / ₂ "
38							3'10"	71" x 42 ¹ / ₂ "
40							4' 2"	71" x 46 ¹ / ₂ "
44							4' 6"	71" x 50 ¹ / ₂ "
50							5' 2"	71" x 58 ¹ / ₂ "

Glass sizes are for guidance only and should be verified in the field.
For glass sizes of other arrangements, inquire.

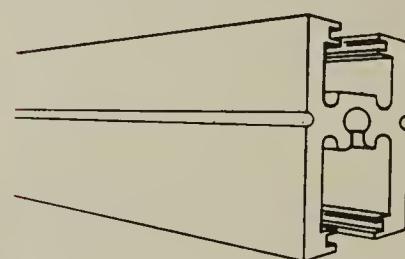
ALUMINUM SLIDING DOORS .



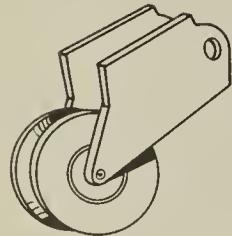
**perfect
indoor-outdoor
living...**

any season...
any weather...
any climate!

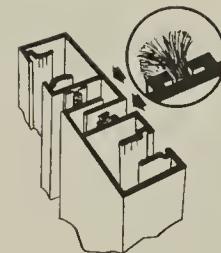
Anodized! Designed for beauty...Engineered for easy installation and trouble-free operation... PORTALUME Aluminum Sliding Glass Doors have become the standard of excellence wherever they have been shown.



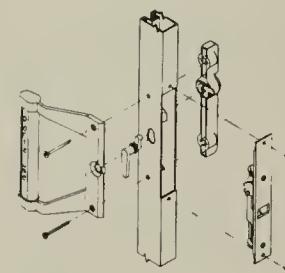
Horizontal muntin arrangements available.



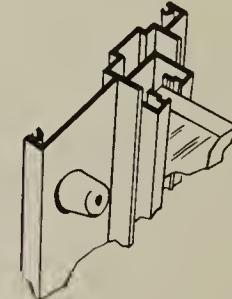
1 Silent bottom nylon roller with sealed ball bearing. Fully adjustable without removing sash.



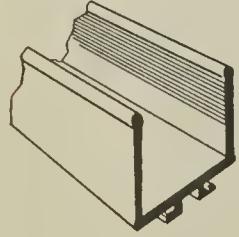
2 Deep meeting-interlock with double wool pile insulation and wind and water resistant baffle.



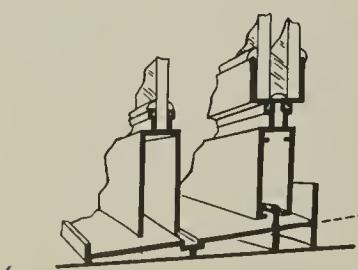
3 Newly designed internal lock installation for service or replacement without disassembling entire door panel. One piece, solid, chrome plated handle with gold insert.



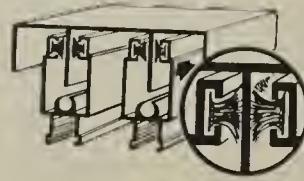
4 Stationary panel secured into deep main frame jamb. Large rubber stop for sliding panel.



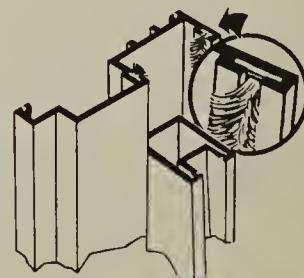
5 Kits available to adapt standard doors to accommodate $\frac{5}{8}$ " insulated glass.



6 Pitched main frame sill with added high riser for quick water removal and double wool pile on sliding sash bottom.



7 Double wool pile insulation in sash heads is standard.



8 Double wool pile weather insulation in deep main frame locking jamb. Tubular locking stile on moving sash.

HOW TO SPECIFY AND ORDER PORTALUME® SLIDING GLASS DOORS

Here is the meaning of each symbol with doors viewed from the outside.

Example: 6A² X_O

6 — nominal width in feet
 A — Portalume Series A
² — Quantity of sash panels
X — Designates moving sash
O — Designates stationary sash

Example: 9A³ O_XO-R

9 — nominal width in feet
 A — Portalume Series A
³ — Quantity of sash panels
X — Designates moving sash
O — Designates stationary sash
 R — Designates that center sash moves to right
 L — Designates that center sash moves to left

For two-panel Doors: Unless otherwise specified, X_O will be shipped.

For three-panel Doors: Unless otherwise specified, O_XO-R will be shipped.

For four-panel Doors: Unless otherwise specified, OXXO will be shipped.

SPECIFICATIONS

GENERAL & SCOPE: The aluminum sliding glass doors shall be PORTALUME® as manufactured by Porta Aluminum Inc., Old Bethpage, New York, or duly authorized representatives or equal. Erection, installation; field glazing and glass, glazing vinyl therefor; caulking compound, caulking, grouting and cleaning after erection, and/or installation, shall be by others.

MATERIAL: Frames and doors shall be of 6063 T5 extruded aluminum alloy having a minimum thickness of .062 inches, subject to commercial tolerances. Material may be changed when deemed necessary in order to conform to the best engineering practice.

CONSTRUCTION: Jamb members shall be so designed as to enable them to be mechanically interlocked and fastened to the header and sill members. All locking stiles shall be one-piece tubular extrusions. Suitable accommodation shall be made for screen.

GLAZING: (By others, except when included in original contract.) Doors shall be glazed with $\frac{1}{4}$ " polished plate, $\frac{1}{4}$ " or $7/32$ " heavy sheet or $3/16$ " crystal with a specially designed vinyl glazing channel, furnished by the manufacturer, and in accordance with their glazing instructions. Unless otherwise specified, vinyl for $3/16$ " glass will be provided by us for 3' panels and vinyl for $7/32$ " glass will be provided for 4' and 5' panels. Glazing with $\frac{5}{8}$ " insulated glass shall also be in accordance with the manufacturer's instructions. Adapters (see diagram number 5) available for conversion for the use of $\frac{5}{8}$ " insulated glass.

Glazing (by factory): unless otherwise specified, 3' panels will be glazed with $3/16$ " crystal; 4' and 5' panels will be glazed with $7/32$ " crystal. Tempered glass available.

HARDWARE: Spring loaded, positive acting door latches shall be provided in locking stile. Internal assembly removable without dismantling panel. Latch lever shall be so constructed as to have a safety "no-lock" position. Key locks shall be furnished. Door handles shall be furnished. Door handles shall be one-piece construction, chrome-plated, with a golden anodized nameplate. Bottom rollers shall have sealed ball bearings with nylon wheels. All the rollers in the sliding panels shall be mounted on an adjustable wheel bracket.

FINISH: Main frame jamb (except in fin trim doors) and sash members (in both fin trim and non-fin trim doors) shall be anodized.

INSTALLATION: (By others, except when included in original contract.) Track, header and jambs must be set plumb and level, shimming where necessary, into opening prepared in accordance with the manufacturer's drawings.

WEATHERSTRIPPING: The sliding door shall be weatherstripped with silicone treated, certified wool pile and vinyl baffles.

FIN TRIM: Doors are also available with integral fin trim of extruded aluminum at the jambs and head.

PERFORMANCE:

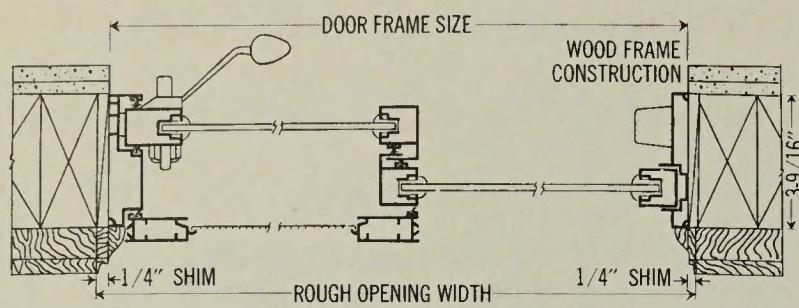
- A. AIR INFILTRATION PERFORMANCE
- B. WATER INFILTRATION PERFORMANCE
- C. UNIFORM LOAD PERFORMANCE
- D. CONCENTRATED LOAD PERFORMANCE

All of the above items, A through D inclusive, constitute the whole of, and shall be as set forth in the performance specifications for SGD-A1 of Architectural Aluminum Manufacturers Association as if fully set forth herein. Proof thereof shall be submitted upon request, and "Quality Certified" seal of said association shall be affixed to each door.

ALUMINUM SLIDING DOORS...

1.

STANDARD 2 DOOR UNIT

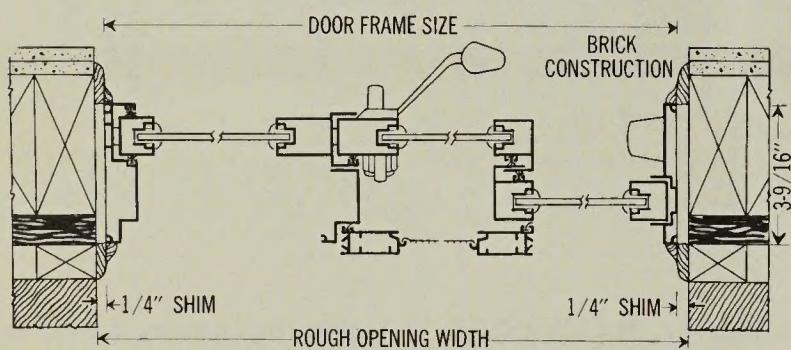


NOMINAL SIZE	PORTALUME DESIGNATION	DOOR FRAME SIZES
		Width Height
5068	5A ² XO or OX	4'10 ¹⁵ / ₁₆ " 6'8 ¹ / ₂ "
6068	6A ² XO or OX	5'10 ¹⁵ / ₁₆ " 6'8 ¹ / ₂ "
8068	8A ² XO or OX	7'10 ¹⁵ / ₁₆ " 6'8 ¹ / ₂ "
10068	10A ² XO or OX	9'10 ¹⁵ / ₁₆ " 6'8 ¹ / ₂ "

All above doors available in 66 Height.
Door frame size 6'6¹/₂".

2.

STANDARD 3 DOOR UNIT

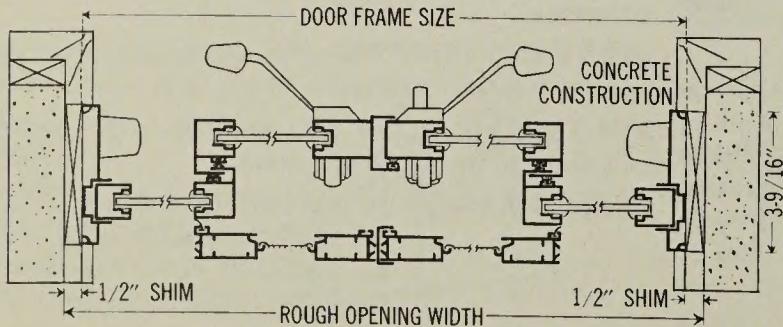


NOMINAL SIZE	PORTALUME DESIGNATION	DOOR FRAME SIZES
		Width Height
9068	9A ³ OXO(R) or OXO(L)	8'10 ¹⁵ / ₁₆ " 6'8 ¹ / ₂ "
12068	12A ³ OXO(R) or OXO(L)	11'10 ¹⁵ / ₁₆ " 6'8 ¹ / ₂ "
15068	15A ³ OXO(R) or OXO(L)	14'10 ¹⁵ / ₁₆ " 6'8 ¹ / ₂ "

All above doors available in 66 Height.
Door frame size 6'6¹/₂".

3.

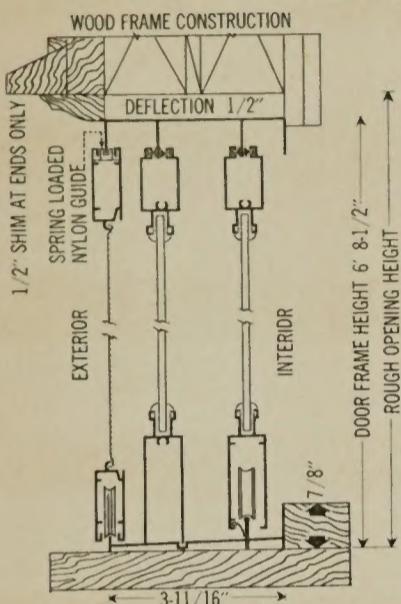
STANDARD 4 DOOR UNIT



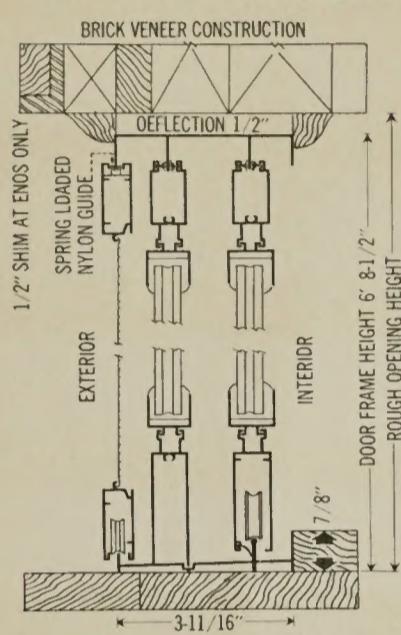
NOMINAL SIZE	PORTALUME DESIGNATION	DOOR FRAME SIZES
		Width Height
12068	12A ⁴ OXO	11'8 ⁷ / ₁₆ " 6'8 ¹ / ₂ "
16068	16A ⁴ OXO	15'8 ⁷ / ₁₆ " 6'8 ¹ / ₂ "
20068	20A ⁴ OXO	19'8 ⁷ / ₁₆ " 6'8 ¹ / ₂ "

All above doors available in 66 Height.
Door frame size 6'6¹/₂".

4. VERTICAL SECTION SINGLE GLAZING



5. VERTICAL SECTION INSULATED GLAZING

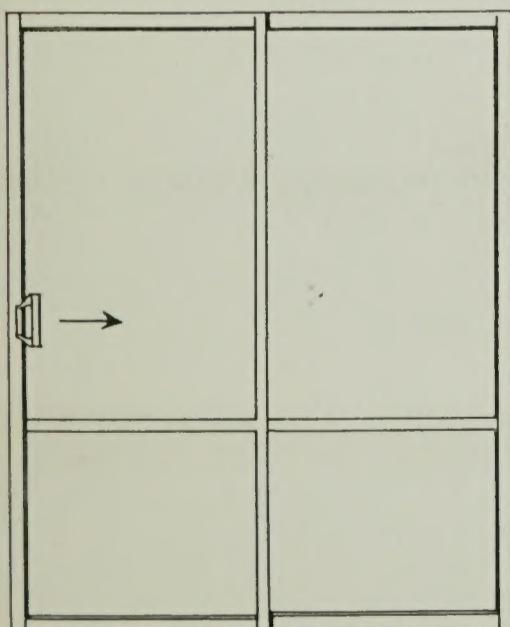


SINGLE GLAZING GLASS SIZES

Widths: 2 1/2 ft. - 28" Glass
3 ft. - 34" Glass
4 ft. - 46" Glass
5 ft. - 58" Glass
Height: 6 ft. 8 1/2" - 76" Glass
6 ft. 6 1/2" - 74" Glass

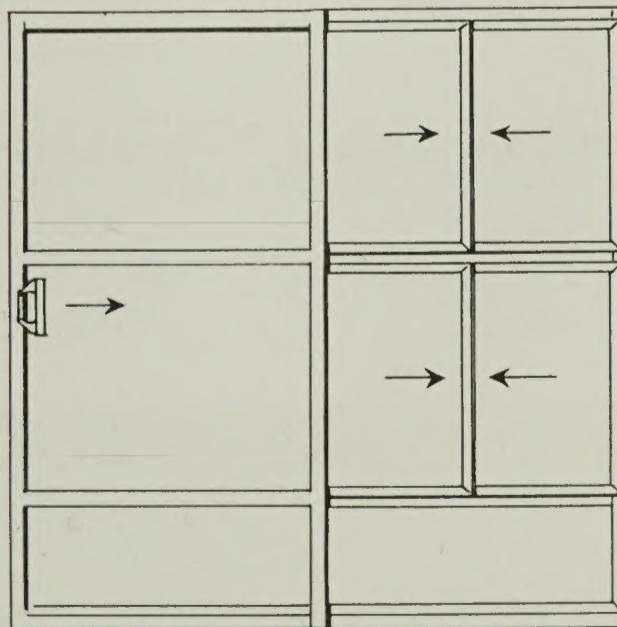
INSULATED GLAZING GLASS SIZES (USED WITH OPTIONAL ADAPTOR)

Widths: 2 1/2 ft. - 26 1/2" Glass
3 ft. - 32 1/2" Glass
4 ft. - 44 1/2" Glass
5 ft. - 56 1/2" Glass
Height: 6 ft. 8 1/2" - 74 1/2" Glass
6 ft. 6 1/2" - 72 1/2" Glass



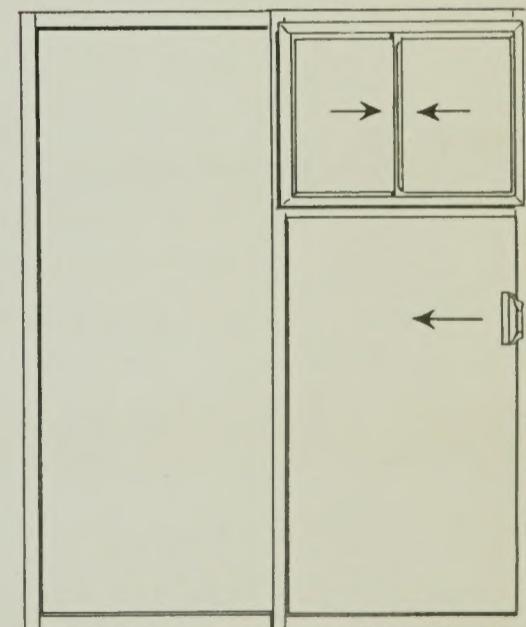
DOORS WITH HORIZONTAL MUNTINS

PORTALUME Aluminum Sliding Doors may be obtained with horizontal muntins to fulfill the demand for various architectural styles. Each lite is individually glazed.



DOORS WITH DOUBLE SLIDING WINDOWS

PORTALUME Aluminum Sliding Doors are available with double sliding windows in them. These sliders afford ventilation with the doors closed and locked. All types of combinations are available. Inquire.



WALLS • PICTURE WINDOWS • SINGLE HUNG WINDOWS • DOUBLE HUNG WINDOWS

• KWIKWALLS • WINDOW WALLS • PICTURE WINDOWS • SINGLE HUNG WINDOWS

WINDOWS • SLIDING DOORS • KWIKWALLS • WINDOW WALLS • PICTURE WINDOWS

WINDOWS • SLIDING WINDOWS • SLIDING DOORS • KWIKWALLS • WINDOW WALLS

VS • DOUBLE HUNG WINDOWS • SLIDING WINDOWS • SLIDING DOORS • KWIKWALLS

HUNG WINDOWS • DOUBLE HUNG WINDOWS • SLIDING WINDOWS • SLIDING DOORS

PORTA ALUMINUM INC.

**303 WINDING ROAD
OLD BETHPAGE, L. I., N. Y.
(516) CHAPEL 9-6000**

**2301 FREDERICKS BLVD.
PORTSMOUTH, VA.
(703) EXPORT 3-6041**

DISTRIBUTED BY: